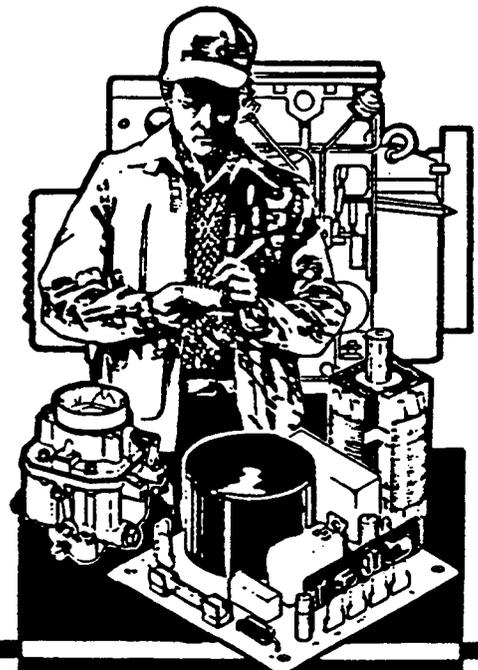


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# Onan

## Parts Manual RJC

### GenSet



**Onan Service Parts**

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974-0220  
3-90 (Spec A-AC)  
Replaces 6-81 (Spec A-AC)  
Printed in U.S.A.

## SAFETY PRECAUTIONS

The following symbols are used in Onan manuals to alert users to the potentially dangerous conditions relating to maintenance of the equipment and replacement of parts. Please read and observe.

**▲ DANGER** *This symbol warns of immediate hazards which will result in severe personal injury or death.*

**▲ WARNING** *This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.*

**▲ CAUTION** *This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.*

## MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO., and SERIAL NO. from the Onan nameplate.

For handy reference, insert your nameplate information in the spaces below:

---

MODEL AND SPEC NO.

---

SERIAL NO.

## PRODUCT SAFETY PRECAUTIONS

### ▲ WARNING

**Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.**

### ▲ WARNING

**Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!**

### ▲ WARNING

**Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives, or using solvents take all necessary precautions not to ingest, breathe the fumes, or contact the liquids. Use adequate ventilation and wear protective gloves, masks and clothing!**

## Introduction

This catalog applies to the standard RJC Generator Sets as listed below. Parts are arranged in groups of related items. Each illustrated part is identified by a reference number corresponding to the same reference number in the parts list for that group. Parts illustrations are typical. Using the model and specification number from the set nameplate, select the Parts Key No. (1, 2, etc. in the last column) that applies to your set Model and Spec No. This Parts Key No. represents parts that differ between models. Unless otherwise mentioned in the description, parts are interchangeable between models. Right and left generating set sides are determined by facing the engine end (front).

### Generator Set Data Table

MODEL AND SPECIFICATION†	COOLING SYSTEM	ELECTRICAL DATA					PARTS KEY NO.
		WATTS	VOLTS	HERTZ	WIRE	PHASE	
12.5RJC-3R/*	Radiator	12,500	120/240	60	4	1	1
12.5RJC-3CR/*	Radiator	12,500	120/240	60	4	1	
12.5RJC-4R/*	Radiator	12,500	120/208	60	4	3	
12.5RJC-4XR/*	Radiator	12,500	277/480	60	4	3	
12.5RJC-5DR/*	Radiator	12,500	120/240	60	4	3	
12.5RJC-9XR/*	Radiator	12,500	347/600	60	4	3	
12.5RJC-18R/*	Radiator	12,500	***	60	12	3	
15.0RJC-3R/*	Radiator	15,000	120/240	60	4	1	2
15.0RJC-3CR/*	Radiator	15,000	120/240	60	4	1	
15.0RJC-4R/*	Radiator	15,000	120/208	60	4	3	
15.0RJC-4XR/*	Radiator	15,000	277/480	60	4	3	
15.0RJC-5DR/*	Radiator	15,000	120/240	60	4	3	
15.0RJC-9XR/*	Radiator	15,000	347/600	60	4	3	
15.0RJC-18R/*	Radiator	15,000	***	60	12	3	
12.5RJC-53R/*	Radiator	12,500	120/240	50	4	1	2
12.5RJC-53CR/*	Radiator	12,500	120/240	50	4	1	
12.5RJC-54R/*	Radiator	12,500	120/208	50	4	3	
12.5RJC-54XR/*	Radiator	12,500	277/480	50	4	3	
12.5RJC-55DR/*	Radiator	12,500	120/240	50	4	3	
12.5RJC-3R/*	City Water Cooled	12,500	120/240	60	4	1	3
12.5RJC-3CR/*	City Water Cooled	12,500	120/240	60	4	1	
12.5RJC-4R/*	City Water Cooled	12,500	120/208	60	4	3	
12.5RJC-4XR/*	City Water Cooled	12,500	277/480	60	4	3	
12.5RJC-5DR/*	City Water Cooled	12,500	120/240	60	4	3	
12.5RJC-9XR/*	City Water Cooled	12,500	347/600	60	4	3	
12.5RJC-18R/*	City Water Cooled	12,500	***	60	12	3	
15.0RJC-3R/*	City Water Cooled	15,000	120/240	60	4	1	4
15.0RJC-3CR/*	City Water Cooled	15,000	120/240	60	4	1	
15.0RJC-4R/*	City Water Cooled	15,000	120/208	60	4	3	
15.0RJC-4XR/*	City Water Cooled	15,000	277/480	60	4	3	
15.0RJC-5DR/*	City Water Cooled	15,000	120/240	60	4	3	
15.0RJC-9XR/*	City Water Cooled	15,000	347/600	60	4	3	
15.0RJC-18R/*	City Water Cooled	15,000	***	60	12	3	
12.5RJC-53R/*	City Water Cooled	12,500	120/240	50	4	1	4
12.5RJC-53CR/*	City Water Cooled	12,500	120/240	50	4	1	
12.5RJC-54R/*	City Water Cooled	12,500	120/208	50	4	3	
12.5RJC-54XR/*	City Water Cooled	12,500	277/480	50	4	3	
12.5RJC-55DR/*	City Water Cooled	12,500	120/240	50	4	3	
Pennsylvania Approved Sets		See special parts list following Standard Parts Section.					

† - New model designations shown, begin during 1969. Previous designations did not use a decimal in the kW rating. Example: 12.5RJC was formerly 12.RJC and 15.0RJC was formerly 15RJC. Also previously a number 8 was used in the model to designate unhooused models. NOTE: Previously the C designation was not used in the model.

\* - The Specification Letter Advances (A to B, B to C, etc.) with manufacturing changes.

\*\*\* - Set is reconnectible for 120 volt 2 wire, 240 volt 2 wire to 120/240 volt 3 wire service.

## STANDARD PARTS SECTION

This section contains standard parts applicable to models listed in the generator set data table.

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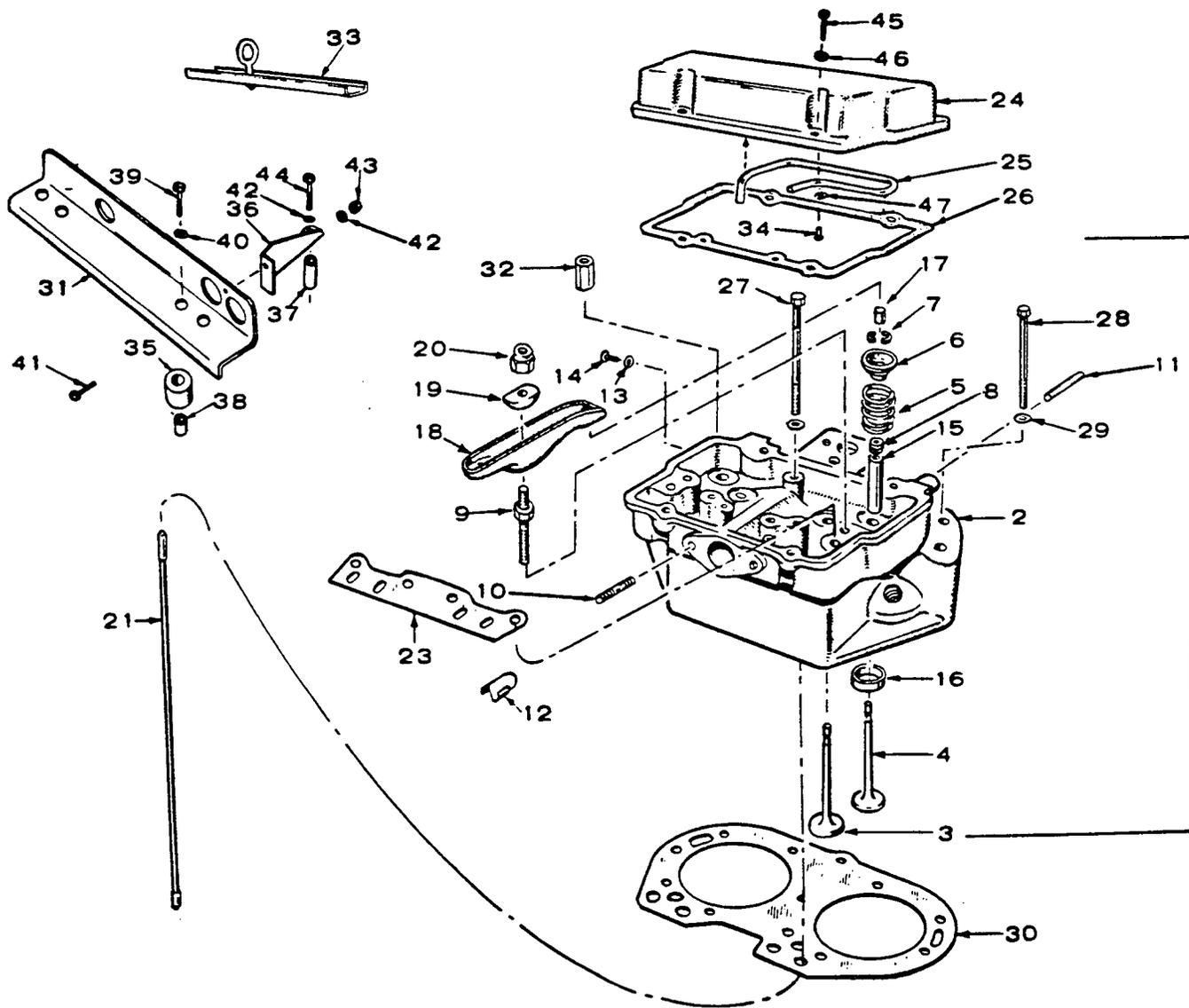
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## Cylinder Head, Valve and Rocker

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Head Assembly, Cylinder (Includes Parts Marked x)	16			xxInsert, Valve Seat
	110-1343	2	Key 1 and 2		110-1214	4 †\$#	Intake, Gasoline Sets Standard
	110-1416	2	Gasoline Sets (Includes Parts Marked †)		110-1214-02	4	.002" Oversize
	110-2879	2	Gas & Gas-Gasoline Sets (Includes Parts Marked *)		110-1214-05	4	.005" Oversize
	110-1483	2	Key 3 and 4		110-1214-10	4	.010" Oversize
	110-1483	2	Gasoline Sets - City Water Cooled - Without Heat Exchanger (Includes Parts Marked ¶)		110-1214-25	4	.025" Oversize
	110-1483	2	Gas-Gasoline Sets - With Heat Exchanger - Without Heat Exchanger - City Water Cooled (Includes Parts Marked ¶)		110-1287	4 *@¶	Intake, Gas & Gas-Gasoline Sets Standard
	110-1347	2	† Gasoline Sets - Standard		110-1287-02	4	.002" Oversize
	110-1399	2	* Gas & Gas-Gasoline Sets		110-1287-05	4	.005" Oversize
	110-1432	2	@ Gas & Gas-Gasoline Sets - City Water Cooled - Without Heat Exchanger		110-1287-10	4	.010" Oversize
	110-1626	2	# Gasoline Sets - With Heat Exchanger - City Water Cooled		110-1287-25	4	.025" Oversize
	110-1482	2	¶ Gas-Gasoline Sets With Heat Exchanger - Without Heat Exchanger - City Water Cooled		110-1215	4	Exhaust Standard - All Sets
2			xHead, Cylinder (Includes Parts Marked xx)		110-1215-02	4	.002" Oversize
	110-1347	2	† Gasoline Sets - Standard		110-1215-05	4	.005" Oversize
	110-1399	2	* Gas & Gas-Gasoline Sets	17	110-1215-10	4	.010" Oversize
	110-1432	2	@ Gas & Gas-Gasoline Sets - City Water Cooled - Without Heat Exchanger	18	110-1215-25	4	.025" Oversize
	110-1626	2	# Gasoline Sets - With Heat Exchanger - City Water Cooled		110-0859	8	Cap, Valve Stem
	110-1482	2	¶ Gas-Gasoline Sets With Heat Exchanger - Without Heat Exchanger - City Water Cooled		115-0128	4	Arm, Rocker
	110-1482	2	¶ Gas-Gasoline Sets With Heat Exchanger - Without Heat Exchanger - City Water Cooled		115-0129	4	Exhaust Intake
	110-1482	2	¶ Gas-Gasoline Sets With Heat Exchanger - Without Heat Exchanger - City Water Cooled	19	115-0127	8	Ball, Rocker Arm
	110-1482	2	¶ Gas-Gasoline Sets With Heat Exchanger - Without Heat Exchanger - City Water Cooled	20	115-0150	8	Locknut, Rocker Arm
	110-1482	2	¶ Gas-Gasoline Sets With Heat Exchanger - Without Heat Exchanger - City Water Cooled	21	115-0154	8	Rod, Valve Push (Steel)
	110-1482	2	¶ Gas-Gasoline Sets With Heat Exchanger - Without Heat Exchanger - City Water Cooled	23	115-0196	2	Guide, Push Rod
	110-1482	2	¶ Gas-Gasoline Sets With Heat Exchanger - Without Heat Exchanger - City Water Cooled	24	115-0134	2	Cover, Rocker Gasoline Sets (Includes Parts Marked **)
	110-1482	2	¶ Gas-Gasoline Sets With Heat Exchanger - Without Heat Exchanger - City Water Cooled		115-0179	2	Gas & Gas-Gasoline Sets (Includes Parts Marked ††)
3			xValve, Intake				Line, Oil - Rocker Cover
	110-1218	4	†\$# Gasoline Sets		120-0628	2 **	Gasoline Sets Only
	110-1286	4	*@¶ Gas & Gas-Gasoline Sets	25	120-0626	2 ††	Gas & Gas-Gasoline Sets
	110-1219	4	xValve, Exhaust		115-0130	2	Gasket, Rocker Cover
	110-1221	8	xSpring, Valve	26	110-1225	10	Bolt, Cylinder Head (Special)
	110-1220	8	xRetainer, Valve Spring	27	800-0501	14	Screw, Hex Head - Cylinder Head (Special)
	110-0858	16	xLock, Valve Spring Retainer	28	526-0174	14	Washer, Flat - Cylinder Head (.406 ID x .781 OD x .1345 Thk)
	509-0090	4	xSeal, Oil - Intake Valve - Includes Retainer Rings		110-1211	2	Gasket, Head
	115-0152	8	xStud, Rocker Arm				
	520-0338	4	xStud, Intake Manifold				
	520-0608	8	xStud, Exhaust Manifold				
	110-1312	2	xBaffle, Fuel Distributor	30			
	850-0030	4	xWasher, Lock (#10 Med)				
	-	4	xScrew, Round Head - Machine (#10-32 x 3/16")				
15			xxGuide, Valve				
			Intake & Exhaust Gasoline Sets				
	110-1501	8	†\$# Standard				
	110-1501-01	8	.001" Oversize				
			Intake, Gas & Gas-Gasoline Sets				
	110-1501	4	*@¶ Standard				
	110-1501-01	4	.001" Oversize - Exhaust, Gas & Gas-Gasoline Sets				
	110-1392	4	*@¶ Standard				
	110-1392-01	4	.001" Oversize				

# Cylinder Head, Valve and Rocker

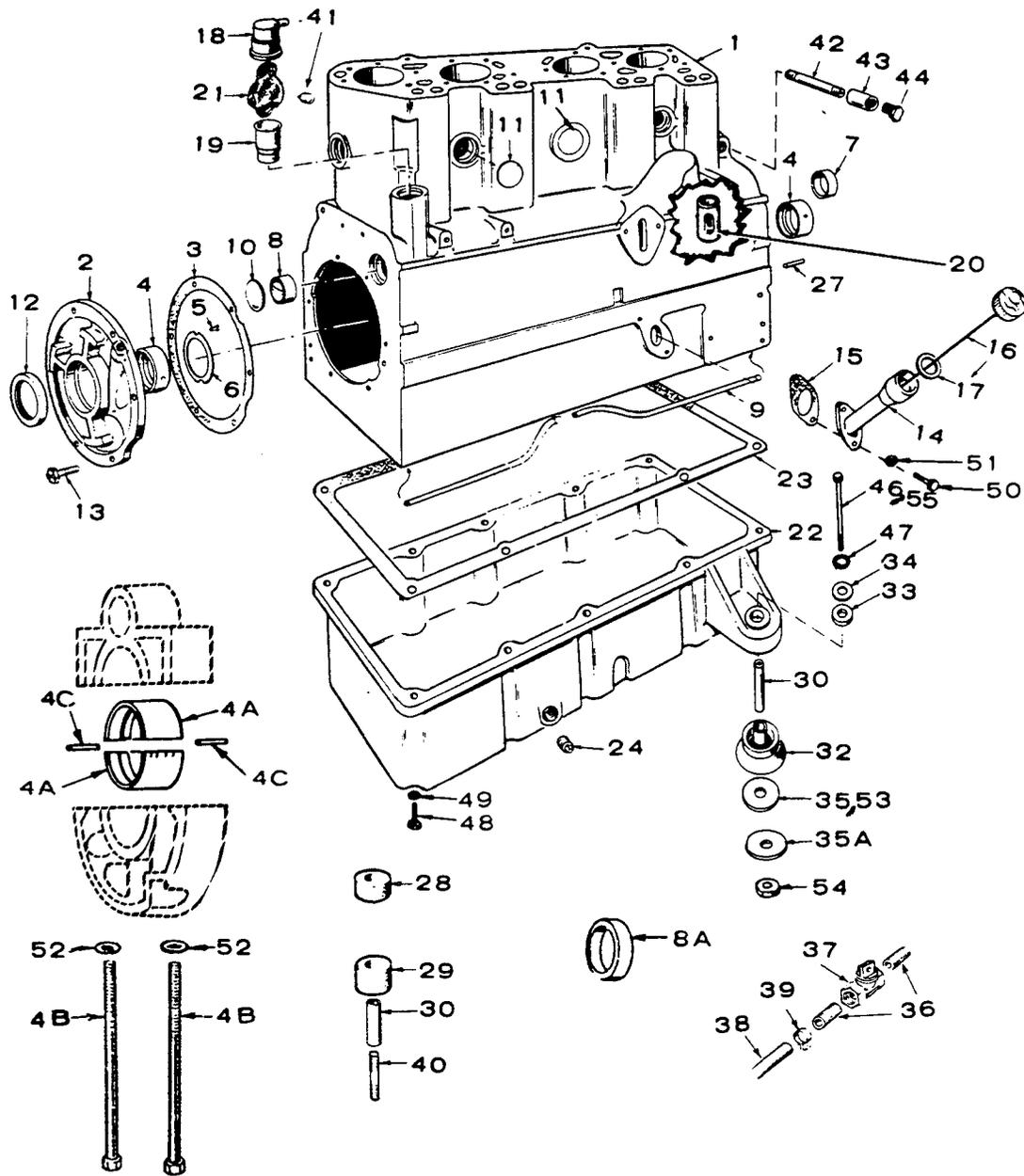


## Cylinder Head, Valve and Rocker

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
31	403-0690	1	Bracket, Lifting - Unhoused Sets	44	800-0038	1	Screw, Cap - Hex Head Brace Mounting (5/16-18 x 3-1/4")
32	403-0620	2	Nut, Extension - Spec A Only	45	800-0030	8	Screw, Cap - Hex Head Rocker Cover Mounting (5/16-18 x 1-1/4")
33			Bar Assembly, Lifting - Spec A Only (Order 403-0690, (2) 809-0091 & 850-0060)	46	350-0045	8	washer, Lock - Rocker Cover Mounting (5/16")
34	815-0562	2††**	Screw, Round Head - Rocker Cover Oil Line (#10 x 5/16")	47	526-0130	1††**	Washer, Flat (17/64 ID x 1 OD x 1/16" Thk)
35	402-0361	2	Cushion, Vibration				
36	403-0890	1	Brace, Lifting Bracket				
37	403-0826	1	Spacer, Lifting Bracket				
38	402-0362	2	Bushing, Spacer				
39	800-0094	2	Screw, Cap - Hex Head Lifting Bracket Mounting (1/2-13 x 2")				
40	526-0100	2	Washer, Flat - Lifting Bracket Mounting (9/16" OD x 1-3/8" OD x 7/64" Thk)				
41	800-0025	1	Screw, Cap - Hex Head Brace to Lifting Bracket (5/16-18 x 5/8")				
42	850-0045	2	Washer, Lock - Brace Mounting (5/16")				
43	862-0015	1	Nut, Hex - Brace to Lifting Bracket (5/16-18)				

† - Parts in Gasoline Sets - Standard.  
 § - Parts in Gasoline Sets - City Water Cooled Without Heat Exchanger.  
 \* - Parts in Gas-Gasoline Sets.  
 @ - Parts in Gas-Gasoline Sets - City Water Without Heat Exchanger.  
 # - Parts in Gasoline Sets - With Heat Exchanger - City Water Cooled.  
 ¶ - Parts in Gas-Gasoline Sets with Heat Exchanger - Without Heat Exchanger - City Water Cooled.  
 \*\* - Parts in Rocker Cover 115-0134.  
 †† - Parts in Rocker Cover 115-0179.  
 x - Parts Included in Cylinder Head Assembly.  
 xx - Parts Included in Cylinder Head.

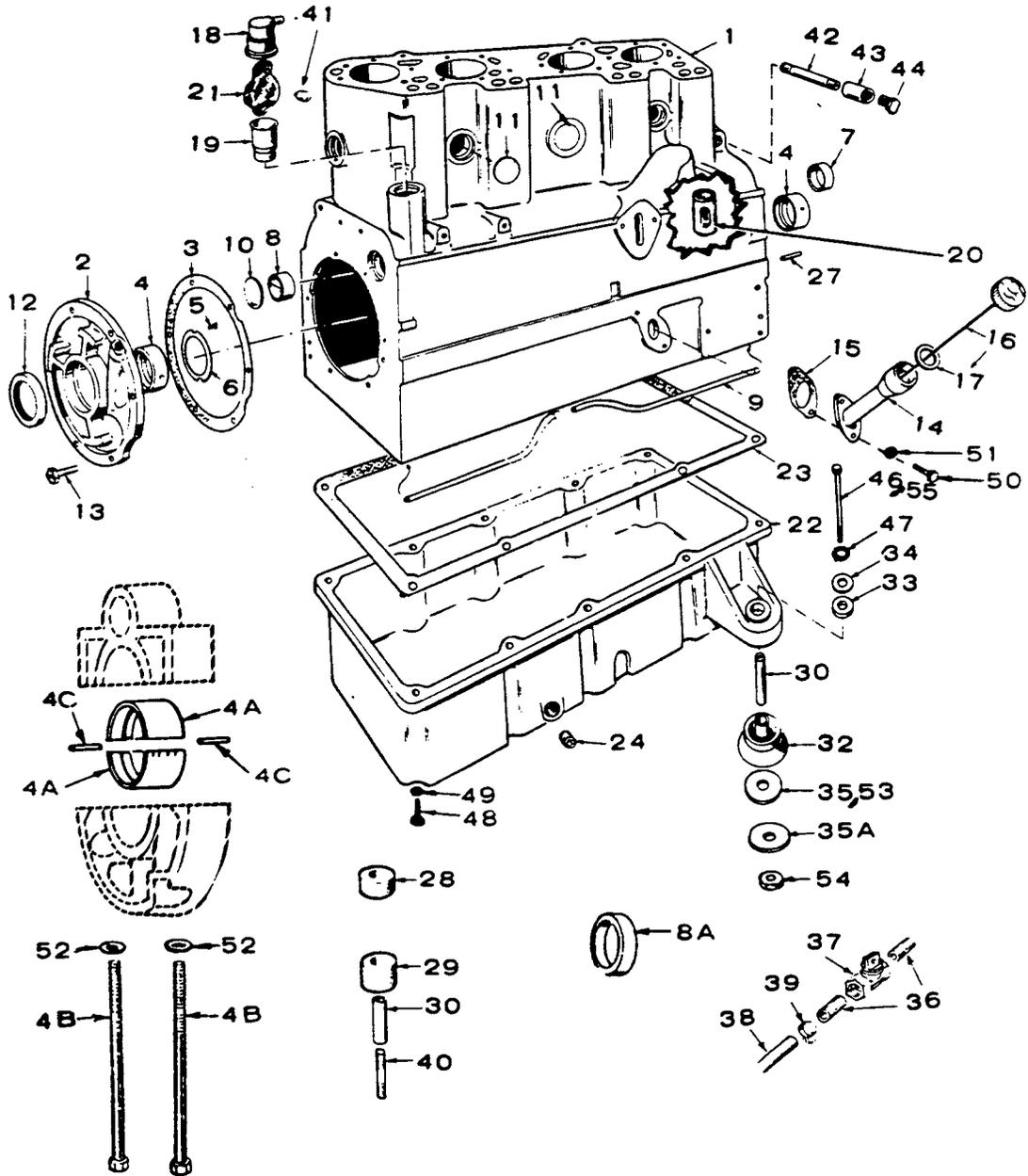
# Cylinder Block and Oil Base



## Cylinder Block and Oil Base

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Block Assembly, Cylinder (Includes Parts Marked *)	20			*Tappet, Valve
	110-1408	1	Key 1,2		115-0132	8	Key 3,4
	110-1361	1	Key 3,4		115-0195	8	Key 1,2
2	101-0337	1	*Plate, Rear Bearing (Less Bearing and Pins)	21			Filter, Breather Tube
3	101-0386	1	*Gasket Kit, Rear Bearing Plate (Includes Shims)		123-0865	1	Spec A through AA
4			*Bearing, Precision Main (Front or Rear)		123-1283	1	Begin Spec AB
	101-0359	2	Standard	22			Base, Oil
	101-0359-02	2	.002" Undersize		102-0476	1	Spec A Only - No Longer Available - For Replacement Order:
	101-0359-10	2	.010" Undersize				1 of 102-0539 Base
	101-0359-20	2	.020" Undersize				1 of 231-0111 Adapter
	101-0359-30	2	.030" Undersize				2 of 402-0285 Mount
4A			*Bearing, Half - Precision Main - Center				1 of 402-0287 Mount
	101-0361	2	Standard				1 of 402-0323 Hardware Package
	101-0361-02	2	.002" Undersize	23	102-0475	1	Gasket, Oil Base
	101-0361-10	2	.010" Undersize	24	505-0056	1	Plug (1/2")
	101-0361-20	2	.020" Undersize	27	516-0141	2	*Pin, Dowel Gear Cover Locating
	101-0361-30	2	.030" Undersize	28	402-0036	4	Mount, Vibration, Cylindrical Shaped, Upper, Spec A Only
4B	101-0342	2	*Bolt, Center Bearing Housing (Special)	29			Mount, Vibration, Cylindrical Shaped, Lower - Spec A Only
4C	516-0149	2	*Pin, Center Bearing Housing		402-0038	2	Engine End
5	516-0072	4	*Pin, Crankshaft Thrust Washer		402-0251	2	Generator End
6	104-0420	2	*Washer, Crankshaft Thrust (Special)	30			Bushing, Spacer, Vibration Mount
7	101-0363	1	*Bearing, Precision Cam Front (Standard Only)		402-0046	4	Spec A Only
8	101-0365	1	*Bearing, Precision Cam Rear (Standard Only)		402-0290	4	‡ Begin Spec B
8A	101-0364	1	*Bearing, Precision Cam Center (Standard Only)	32			Cushion, Vibration, Cone Shaped - Begin Spec B
9			*Tube, Crankcase Oil		402-0285	2	Engine End
	120-0586	1	Front		402-0287	2	Generator End - Spec B through Z
	120-0585	1	Rear		402-0286	2	Generator End - Begin Spec AA - Skid Base Models
10	517-0053	1	*Plug, Expansion Rear Cam Opening		402-0285	2	Engine End
11			*Plug, Cylinder Block - Expansion		402-0287	2	Generator End
	517-0096	2	Left Side (Accessory)	33	402-0282	4	‡‡ Subber, Shock Mounting Begin Spec B
	517-0097	1	1-9/16" Ends				‡‡ Washer, Flat (Use Only With Cone Shaped Cushions)
			1-3/4" Center				(29/64 ID x 1-1/2" OD x 1/8" Thk)
	517-0059	2	Right Side	35			Washer, Flat (Use Only With Cone Shaped Cushions)
			1-7/16"		526-0198	4	‡‡ 5/8 ID x 1-1/2" OD x 1/16" Thk
			Rear End				‡ 29/64 ID x 3-1/4" OD x 1/8" Thk - Begin Spec B
			1-7/16"				‡ 29/64 ID x 3-1/4" OD x 1/8" Thk - Skid Base Models
			Front End (City Water Only)	35A	526-0195	4	Nipple, Oil Drain
			1-7/16" Water Pump Hole				Skid Base Models
12	509-0086	1	Seal, Crankshaft Rear (in Gasket Kit 168-0099)	35A	526-0195	3	Key 1,2
13	805-0019	6	*Bolt, Place - Rear Bearing Plate	36			Valve, Oil Drain - Key 1,2 - Skid Base Models
14	123-0649	1	Tube, Oil Fill		505-0002	2	Hose, Oil Drain - Key 1,2 Skid Base Models
15	123-0667	1	Gasket, Oil Fill Tube		505-0100	2	Clamp, Oil Drain Hose Key 1,2 - Skid Base Models
16	123-0698	1	Cap and Indicator	37	504-0011	1	
17	123-0191	1	Gasket, Cap				
18	123-0787	1	Cap, Breather Tube	38	503-0316	1	
19	123-0645	1	Tube, Breather	39	503-0197	1	

# Cylinder Block and Oil Base



## Cylinder Block and Oil Base

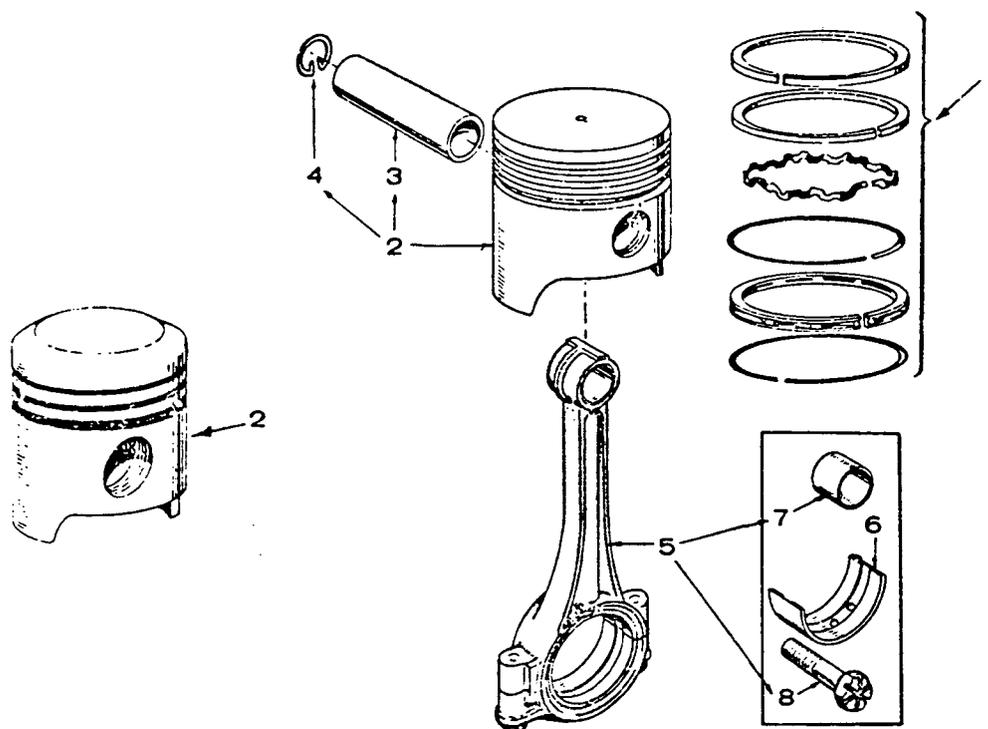
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
40	520-0650	4	Stud, Vibration Mount Key 1,2 - Spec A Only	51	850-0045	2	Washer, Lock - Oil Fill Tube Mounting (5/16")
41	505-0266	2	Plug (3/8") Cylinder Block Key 1,2	52	526-0035	2	*Washer, Flat - Center Main Bearing Housing (17/32 ID x 7/8 OD x 1/8" Thk)
42			Nipple, Water Drain	53	526-0199	1	§Washer (Notched) - Generator End - Skid Base Models (29/64 ID x 3-1/4" x 1/8" Thk)
	505-0071	1	Spec A and B (1/4 x 2")				
	505-0449	1	Begin Spec C (1/4 x 6")				
43	505-0027	1	Coupling (1/4"), Water Drain	54	862-0004	4	†§Nut, Hex - Skid Base Models (7/16"-14)
44	502-0153	1	Plug (1/4"), Washer Drain	55	816-0212	4	†Bolt, Carriage (7/16"-14 x 5-1/2") - Begin Spec B
46			Screw, Cap - Hex Head - Cushion Mounting				
	800-0081	4	Standard (7/16-14 x 3-1/2")				
	800-0082	4	§ Skid Base (7/16-14 x 3-3/4")				
47	850-0055	4	§†Washer, Lock (7/16") Standard Skid Base Models				
48	800-0072	10	Screw, Cap - Hex Head Oil Base Mounting (7/16-14 x 1-1/4")				
49	850-0055	10	Washer, Lock - Oil Base Mounting (7/16")				
50	800-0026	2	Screw, Cap - Hex Head - Oil Fill Tube Mounting (5/16-18 x 3/4")				

\* - Parts Included in Cylinder Block Assembly.

† - Parts Included in Mounting Hardware Package  
#402-0291 (Enough for 1 Assembly Only) Begin  
Spec B.

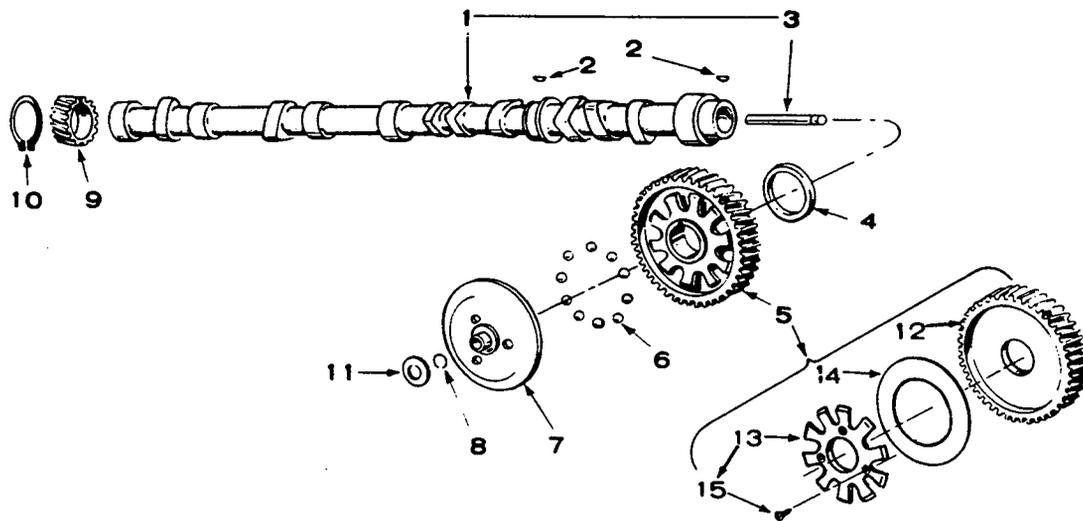
§ - Included in Mounting Hardware Package #402-0327  
Skid Base Models Only (Enough for 4 Assemblies)

## Piston and Rod



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Ring Set, Piston	3	112-0086	4	Pin, Piston
	113-0107	4	Standard	4	112-0085	8	Ring, Retaining - Pin
	113-0107-10	4	.010" Oversize	5	114-0163	4	Rod Assembly, Connecting (Forged)
	113-0107-20	4	.020" Oversize				Bearing Half, Connecting Rod
	113-0107-30	4	.030" Oversize	6			Standard
2			Piston and Pin (Includes Pin Retaining Rings)		114-0164	8	.002" Undersize
			Gasoline, Gas-Gasoline, LPG & Standard Natural Gas Sets		114-0164-02	8	.010" Undersize
	112-0172	4	Standard Size		114-0164-10	8	.020" Undersize
	112-0172-10	4	.010" Oversize		114-0164-20	8	.030" Undersize
	112-0172-20	4	.020" Oversize	7	114-0170	8	Bushing, Piston Pin (Half) - Connecting Rod
	112-0172-30	4	.030" Oversize	8	805-0012	8	Bolt, Place - Connecting Rod (Special)
			Natural Gas Only (High Compression Piston) - Optional				
	112-0174	4	Standard Size				
	112-0174-10	4	.010" Oversize				
	112-0174-20	4	.020" Oversize				
	112-0174-30	4	.030" Oversize				

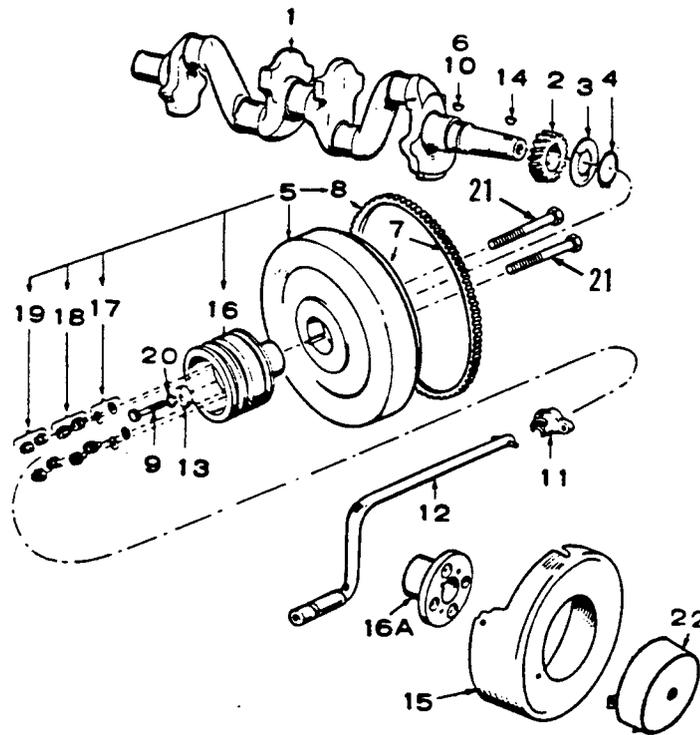
# Camshaft



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	105-0240	1	Camshaft (Includes Pin)	9	166-0302	1	Gear, Distributor Drive
	105-0275	1	Spec A through N	10	518-0195	1	Ring, Distributor Drive Gear
	105-0275	1	Begin Spec P	11	150-0859	1	Washer, Thrust Governor Yoke
2	515-0001	2	Key, Camshaft Gear or Distributor Drive Gear	12	105-0465	1	*Gear, Camshaft
3	150-0075	1	Pin, Camshaft Center	13	150-1842	1	*Spacer Kit, Governor Ball (Includes Parts Marked †)
4	105-0205	1	Washer, Thrust	14	150-0773	1	*Plate, Governor Ball
5	105-0218	1	Gear, Camshaft (Includes Parts Marked *)	15	815-0506	3	*†Screw, Flathead - Governor Ball Spacer (10-32 x 1/2")
6	510-0046	10	Ball, Fly - Governor				
7	150-0857	1	Cup, Governor				
8	150-0078	1	Ring, Center Pin (Snap)				

\* - Parts Included in 105-0218 Camshaft Gear.  
 † - Parts Included in 150-1842 Spacer Kit.

## Crankshaft and Flywheel

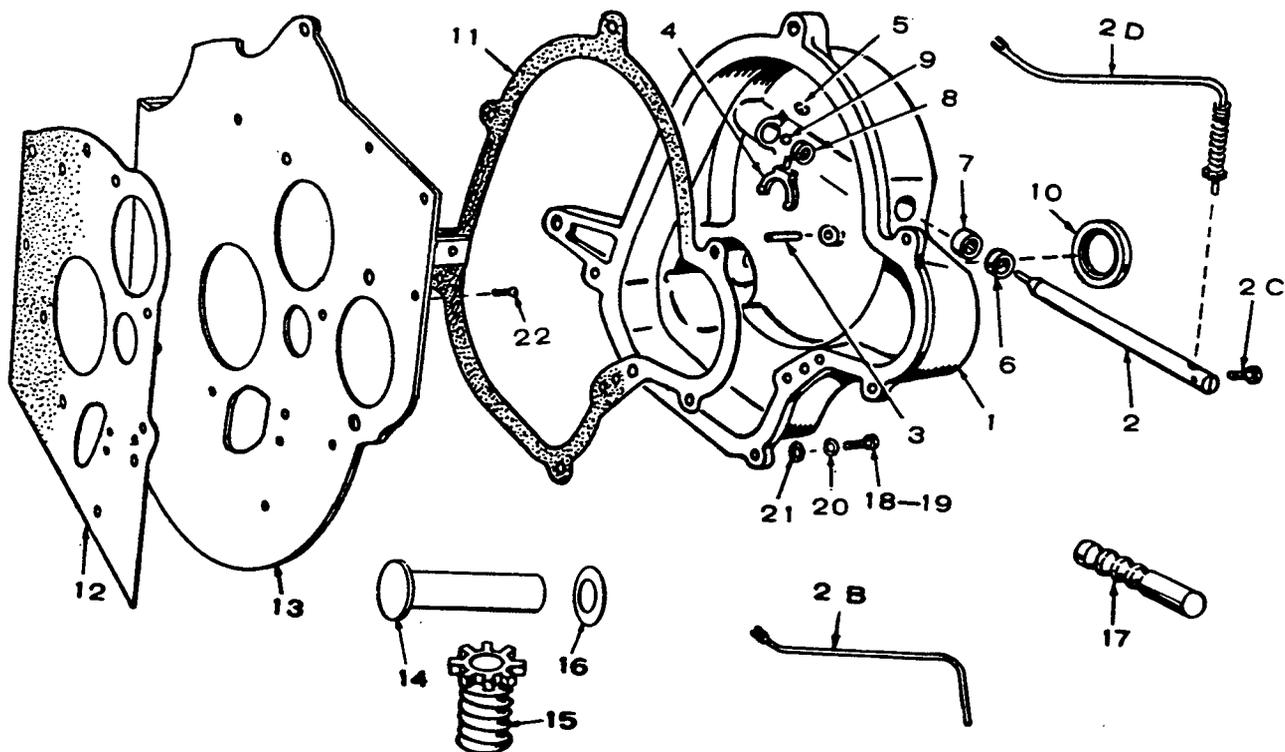


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-0460	1	Crankshaft	13	526-0185	1	Washer, Flat - Flywheel Mounting (15/32" ID x 1-1/2" OD x 3/8" Thk)
	104-1362	1	Spec A through AB Begin Spec AC (Includes Parts Marked †)	14	515-0153	1	†Key, Flywheel to Crankshaft
2	104-0418	1	Gear, Crankshaft	15	104-0510	1	Guard, Flywheel - Key 3,4
3	104-0416	1	Washer, Gear Retainer (Special)	16	104-0957	1	Hub, Flywheel - Key 1,2
4	518-0188	1	Ring, Lock	16A	134-1401	1	Hub, Flywheel - Key 3,4
5			Flywheel (Includes Ring Gear and Hub)	17	526-0187	4	Washer, Flat - Hub to Flywheel (Special)
	104-0549	1	Key 1,2	18	104-0543	4	Spacer & Washer Assembly, Hub to Flywheel
	104-0556	1	Key 3,4	19	115-0150	4	Nut, Lock - Hub to Flywheel (Special)
6	515-0006	1	†Key - Begin Spec AC	20	850-0055	1	Washer, Lock - Flywheel Mounting (7/16")
7	104-0547	1	Flywheel (With Ring Gear, Less Hub)	21	801-0054	4	Screw, Cap - Hex Head - Flywheel Hub Mounting (3/8-24 x 2")
8	104-0423	1	Gear, Ring	22	104-0594	1	Cover, Flywheel Guard - Key 1,2
9	800-0500	1	Screw, Hex Head Cap - Flywheel (Special)				
10	515-0001	1	†Key, Crankshaft Gear				
11	104-0429	1	*Crankdog - Key 1,2				
12	192-0004	1	*Crank - Key 1,2				

\* - Used on Early Models Only.

† - Parts Included in 104-1362 Crankshaft Kit.

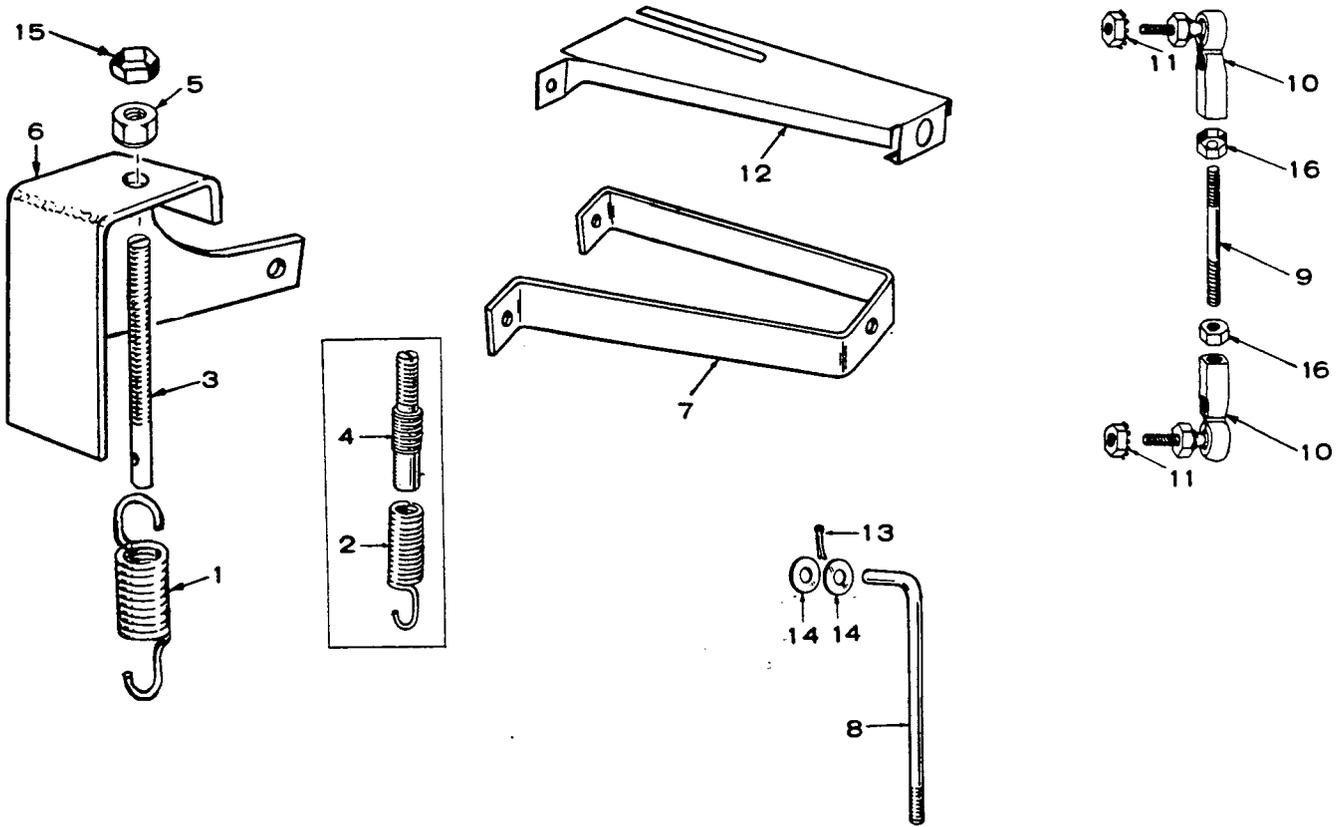
# Gearcase



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cover Assembly, Gear (Includes Parts Marked *)	12	103-0218	1	Gasket, Backplate
	103-0278	1	Key 1,2 - Spec A through Q	13	103-0228	1	Backplate
	103-0302	1	Key 1,2 - Begin Spec R	14	150-1154	1	*Pin, Governor Shaft Hub - Key 1,2 - Begin Spec R
	103-0277	1	Key 3,4	15	150-1160	1	*Hub, Governor Shaft - Key 1,2 - Begin Spec R
2			*Shaft, Governor	16	150-1155	1	*Washer, Lock - Governor Shaft - Key 1,2 - Begin Spec R
	150-0901	1	Key 1,2	17	150-0900	1	*Arm, Governor Spring Control - Key 1,2 - Spec A through Q
	150-0838	1	Key 3,4	18	110-0879	4	Screw, Cap - Hex Head, Gear Cover Mounting (Special)
2B	150-0836	1	Arm, Governor - Spec A through Q	19	800-0028	1	Screw, Hex Head - Cap, Gear Cover Mounting (5/16-18 x 1")
2C			*Screw, Hex Head - Machine	20	850-0045	5	Washer, Lock - Gear Cover Mounting (5/16")
	815-0176	2	Key 1,2 (#8-32 x 1/2")	21	526-0115	5	Washer, Flat - Gear Cover Mounting (11/32" ID x 11/16" OD x 1/16" Thk)
	815-0176	1	Key 3,4 (#8-32 x 1/2")	22	800-0026	1	Screw, Cap - Hex Head Backplate Mounting (5/16-18 x 3/4")
2D			Arm, Governor				
	150-1158	1	Key 1,2 - Begin Spec R				
	150-1091	1	Key 3,4 - Begin Spec R				
3	516-0111	1	*Pin, Governor Cup Stop				
4	150-0777	1	*Yoke, Governor				
5	518-0129	1	*Ring, Yoke Retaining				
6	509-0088	1	*Seal, Governor Shaft				
7	510-0048	1	*Bearing, 1/2" Shaft				
8	510-0082	1	*Bearing, 1/4" Shaft				
9	510-0043	1	*Ball, Governor Shaft Thrust				
10	509-0087	1	*Seal				
11	103-0251	1	Gasket, Gear Cover				

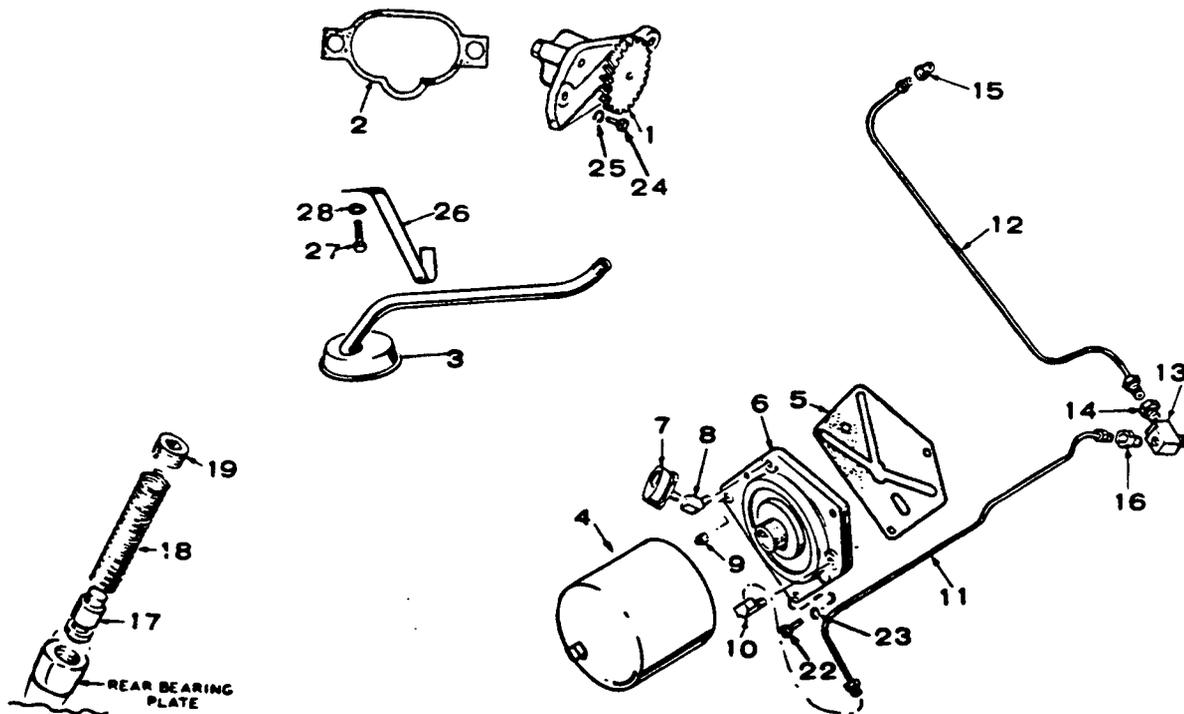
\* - Parts Included in Gear Cover Assembly.

# Governor



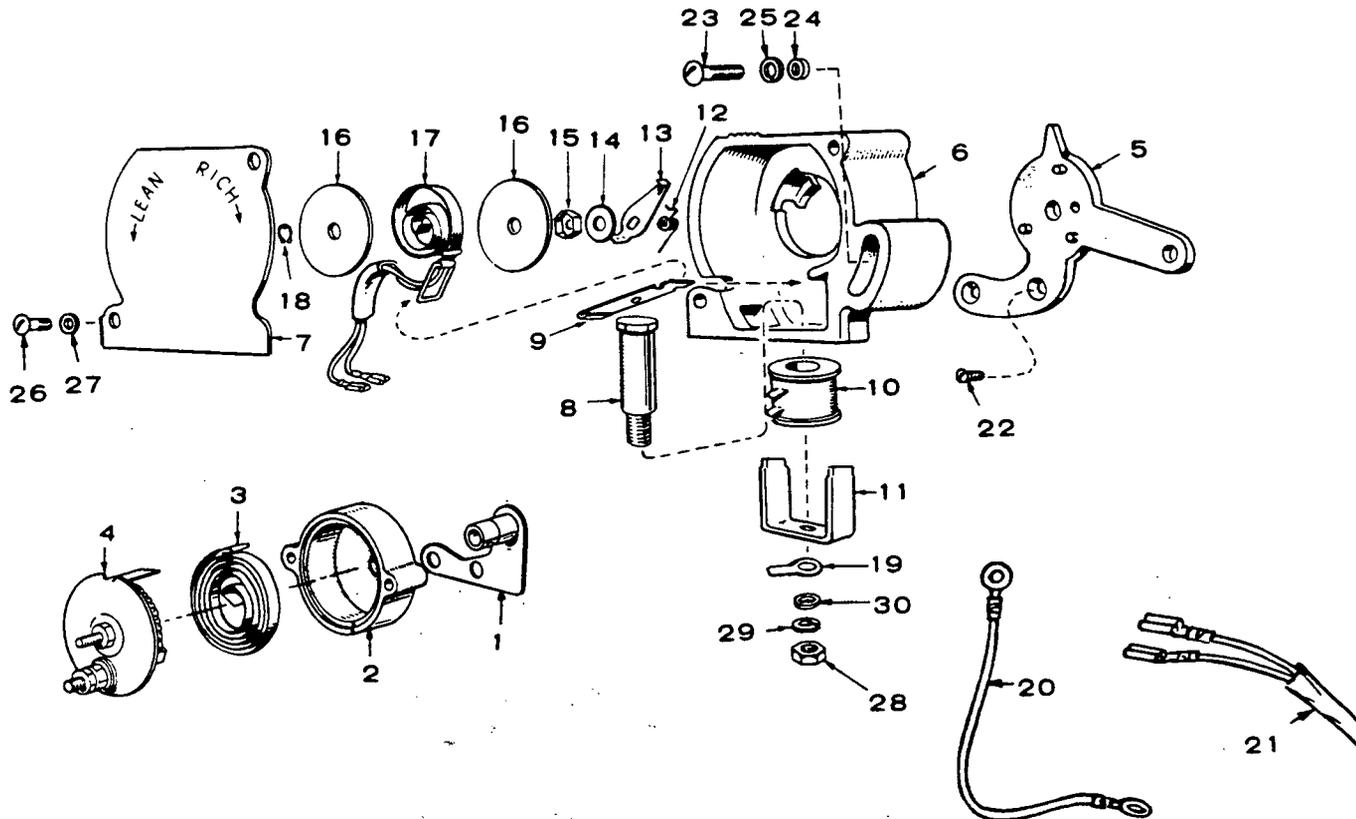
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-1085	1	Spring, Governor - Begin Spec R	9	150-1069	1	Link, Governor - Begin Spec R
2	150-0862	1	Spring, Governor - Spec A through Q	10	150-0974	1	Joint, Ball Spec A through Q
3	150-1082	1	Stud, Governor Adjusting - Begin Spec R	11	150-1081	2	Begin Spec R
4	150-0863	1	Stud, Governor Adjusting - Spec A through Q	12	870-0131	2	Nut, Hex (W ET 10-32) (1 used Spec A through Q)
5			Nut, Adjusting	13	150-0823	1	Cover, Governor Spring Control - Key 3,4 - Spec A through Q
	104-0091	1	Spec A through Q (Special)	14	516-0036	1	Key, Cotter - Spec A through Q
	862-0003	1	Begin Spec R (3/8-16)	14	526-0116	2	Washer, Flat - Link to Carburetor (.200 ID x 3/8 OD x 1/32" Thk) Spec A through Q
6			Bracket, Governor Adjustment - Key 1,2	15			Nut, Lock
	150-0902	1	Spec A through Q		870-0130	1	Spec A through Q (Special)
	150-1105	1	Begin Spec R		870-0133	1	Begin Spec R (3/8-16)
7			Bracket, Governor - Key 3,4	16	870-0188	2	Nut, Lock - Governor Link (1 used Spec A through Q) (10-32)
	150-0810	1	Spec A through Q				
	150-1103	1	Begin Spec R				
8	150-0841	1	Link, Governor - Spec A through Q (No Longer Available)				

# Oil System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	120-0547	1	Pump Assembly, Oil	14	502-0097	1	Connector, Inverted Male - Rear Cylinder Head, Oil Line to Tee
2	120-0580	1	Gasket Kit, Oil Pump	15			Connector, Inverted Male - Rear Cylinder Head to Oil Line
3	120-0601	1	Cup Assembly, Oil Pump Intake		502-0097	1	Spec A through N
4	122-0185	1	Filter, Oil		502-0274	1	Begin Spec P (Restricted)
	122-0193	1	4-3/8" Long	16			Connector, Inverted Male - Adapter Oil Line to Tee
5	122-0188	1	5-3/4" Long		502-0030	1	Gasoline Sets - Spec A through N
6	122-0182	1	Gasket, Adapter		502-0097	1	Gasoline Sets - Begin Spec P
7	193-0108	1	Adapter, Oil Filter		502-0097	1	Gas & Gas-Gasoline Sets
	193-0244	1	Sender, Oil Gauge Pressure	17	120-0539	1	Valve, Oil By-Pass
	193-0271	1	Spec A through AA	18	120-0555	1	Spring, By-Pass Valve
8	502-0094	1	Spec AB	19	505-0274	1	Plug (1/8") - Oil By-Pass
9	505-0057	1	Begin Spec AC	22	800-0028	3	Screw, Cap - Hex Head - Oil Filter Adapter Mounting (5/16-18 x 1")
10	502-0019	1	Elbow, Oil Gauge Sender	23	850-0045	3	Washer, Lock - Oil Filter Adapter Mounting (5/16)
	502-0037	1	Plug (1/8") - Spec A and B	24	800-0030	2	Screw, Cap - Hex Head - Oil Pump Mounting (5/16-18 x 1-1/4")
	502-0037	1	Elbow, Oil Line to Filter	25	850-0045	2	Washer, Lock - Oil Pump Mounting (5/16)
11			Adapter	26	120-0602	1	Bracket, Oil Pump Intake Cup
			Gasoline Sets, Spec A through N	27	800-0025	1	Screw, Cap - Hex Head (5/16-18 x 1/2" Lg)
			Gasoline Sets, Begin Spec P	28	850-0045	1	Washer, Lock (5/16")
			Gas & Gas-Gasoline Sets				
			Line, Filter Adapter to Cylinder Head				
			Gasoline Sets, Spec A through N				
			Gasoline Sets, Begin Spec P				
			Gas and Gas-Gasoline Sets, Spec A Only				
			Gas and Gas-Gasoline Sets, Begin Spec B				
12			Line, Tee to Rear Cylinder Head				
			Spec A through N				
			Begin Spec P				
13			Tee, Restricted Front Cylinder Head				
			With Restriction Plug				
			Without Restriction Plug				

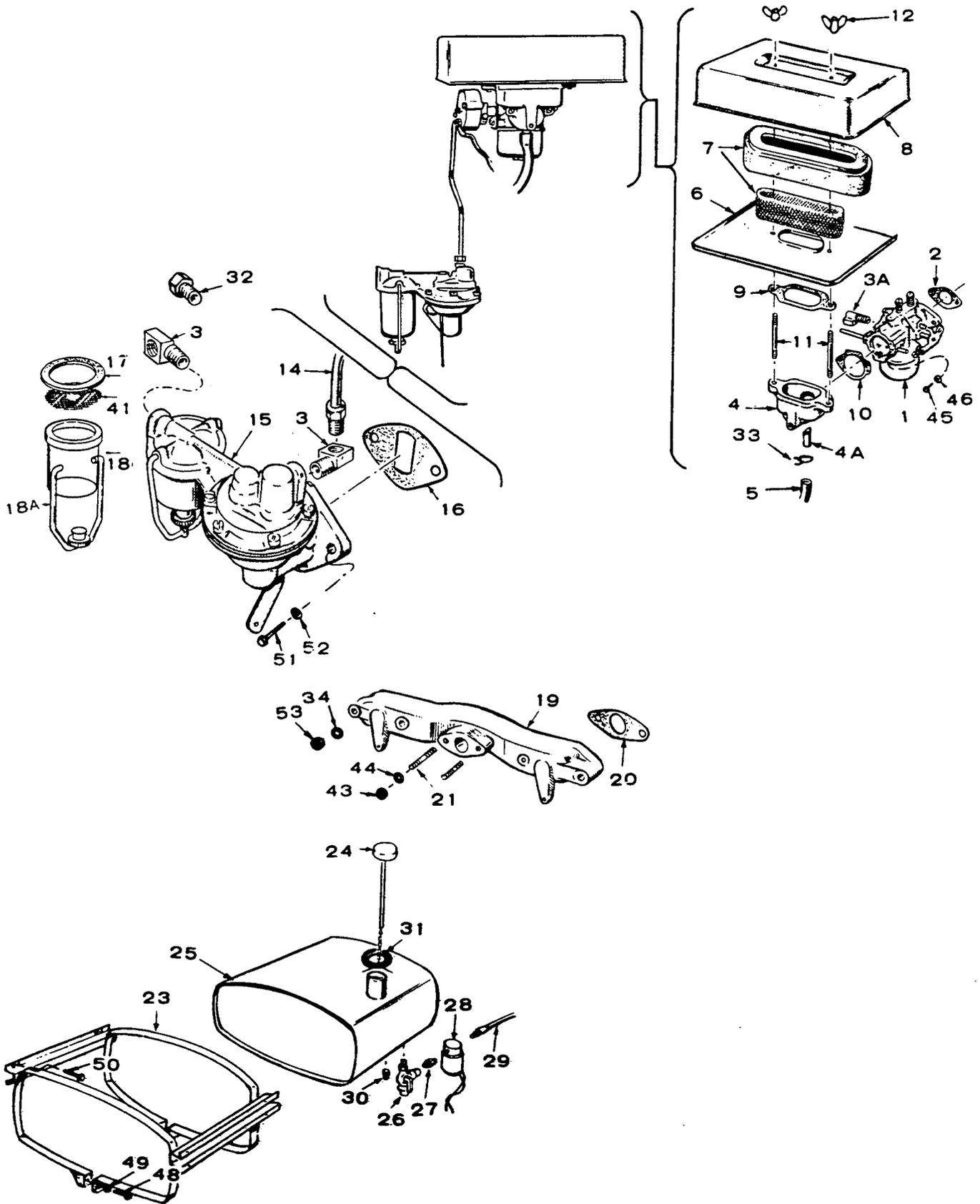
## Electric Choke and Thermo-Magnetic Choke



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	*		Adapter - Spec A and B	19	332-0876	1	Terminal, Ground - Begin Spec C
2	153-0324	1	Bracket - Spec A and B	20	336-1550	1	Lead, Choke Ground - Begin Spec C
3	*		Element - Spec A and B	20	336-1549	1	Lead, Solenoid to Ground - Begin Spec C
4	153-0325	1	Cover Assembly, Choke (12 Volt) Spec A and B	21	338-0332	1	Harness, Choke - Begin Spec C
5	153-0385	1	Plate, Mounting - Begin Spec C	22	815-0161	2	Screw, Flat Head - Machine Plate Mounting (10-32 x 3/8")
6	153-0386	1	Body - Begin Spec C	23	813-0107	1	Screw, Round Head - Machine Locking - Choke Adjustment (10-32 x 1-1/4")
7	153-0389	1	Cover - Begin Spec C	24	526-0008	1	Washer, Flat (13/64" ID x 7/16 OD x 1/32" Thk)
8	153-0391	1	Core, Solenoid - Begin Spec C	25	850-0030	1	Washer, Lock (#10)
9	153-0395	1	Armature - Begin Spec C	26	812-0076	2	Screw, Round Head - Machine Cover Mounting (#8-32 x 5/16")
10	307-1203	1	Coil, Solenoid - Begin Spec C	27	854-0007	2	Washer, Lock (#8)
11	153-0392	1	Frame, Solenoid - Begin Spec C	28	862-0015	1	Nut, Hex (5/16-18)
12			Spring	29	854-0017	1	Washer, Lock (5/16")
	153-0387	1	Spec C through R	30	526-0022	1	Washer, Flat (21/64 ID x 9/16 OD x 1/16" Thk)
	153-0425	1	Begin Spec S		153-0430	1	Kit, Choke (Thermo Magnetic). For Plants Originally equipped with this type Choke
13	153-0390	1	Lever, Thermostat - Begin Spec C				
14	526-0018	1	Washer, Flat - Begin Spec C (17/64 ID x 5/8 OD x 1/16" Thk)				
15	870-0134	1	Pinut (1/4-20) Begin Spec C				
16	153-0399	2	Insulator - Begin Spec C				
17			Heater Assembly				
	153-0400	1	Spec C through R				
	153-0422	1	Begin Spec S				
18	518-0129	1	Ring, Retaining - Begin Spec C				

\* - No Longer Available - Order Choke Kit #153-0378.

# Fuel System



## Fuel System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			*Carburetor, Gasoline (Includes Mounting Gasket)	25	159-0639	1	Tank, Fuel - Housed Sets - Key 1,2
	141-0758	1	(Includes Parts Marked **) Spec A Through Q (For Carburetor Breakdown See 141-0759)	26	504-0004	1	Valve, Shut-off - Housed Sets - Key 1,2
	141-0876	1	Begin Spec R (Includes Parts Marked †) (For Carburetor Breakdown See 141-0685)	27	502-0082	1	Nipple, Hex - Brass Pipe - Key 1,2 - Housed Sets
2	141-0281	1	Gasket, Carburetor	28	307-0565	1	Valve, Fuel Solenoid (12 Volt) Housed Sets - Key 1,2
3	502-0002	2	Elbow, Fuel Pump Inlet and Outlet	29	501-0015	1	Line, (16") - Housed Sets - Key 1,2
3A	502-0065	1	Elbow, Carburetor Inlet	30	505-0057	1	Plug (1/8") - Shut Off Valve - Housed Sets - Key 1,2
4			Adapter, Air Cleaner (Includes Tube)	31	159-0751	1	Gasket, Tank Filler Neck - Key 1,2 - Housed Sets
	140-0647	1	Spec A through Q	32	502-0003	1	Connector, Pump Inlet - Housed Sets with Mounted Tank - Key 1,2 - Housed Sets
	140-0933	1	** Begin Spec R	33	503-0171	2	Clamp, Breather Hose
4A	123-0732	1	Tube, Nylon	34	526-0065	4	Washer, Flat (Copper) Intake Manifold Mounting (21/64" ID x 9/16" OD x 1/16" Thk)
5	503-0416	1	Hose, Breather to Air Cleaner Adapter (7/16 ID x 12")	41	149-0463	1	Screen, Fuel Pump
6	140-0595	1	Pan, Air Cleaner	43	868-0002	2	Nut, Hex - Carburetor Mounting (5/16-24)
7	140-0636	1	Element & Retainer, Air Cleaner	44	854-0017	2	Washer, Lock (IT) - Carburetor Mounting (5/16")
8	140-0594	1	Cover, Air Cleaner	45	813-0108	2	Screw, Round Head - Machine Air Cleaner Adapter Mounting (10-32 x 1-1/2")
9	140-0584	1	**Gasket, Air Cleaner	46	850-0030	2	Washer, Lock - Air Cleaner Adapter Mounting (#10)
10			Gasket, Adapter to Carburetor	48	812-0168	2	Screw, Round Head - Machine - Fuel Tank Mounting Bracket (1/4-20 x 3-1/2")
	140-0585	1	Spec A through Q	49	850-0040	2	Washer, Lock - Fuel Tank Mounting Bracket (1/4")
	140-0921	1	** Begin Spec R	50	821-0010	8	Screw, Hex Washer Head - Self Locking - Fuel Tank Mounting (1/4-20 x 1/2")
11	520-0621	2	Stud, Air Cleaner	51	800-0027	2	Screw, Cap - Hex Head - Fuel Pump Mounting (5/16-18 x 7/8")
12	865-0020	2	Nut, Wing - Air Cleaner (1/4-20)	52	149-1307	2	Washer, Copper - Fuel Pump Mounting
14			Line, Pump to Carburetor	53	110-0445	4	Nut, Hex - Intake Manifold Mounting (special)
	159-0744	1	Spec A and B	149-1048	1	Repair Kit, Fuel Pump	
	149-1016	1	Spec C through Q				
	149-1099	1	** Begin Spec R				
15	149-1787	1	Pump, Fuel (Includes Mounting Gasket) (Includes Parts Marked §)				
16	149-0792	1	§ Gasket, Fuel Pump Mounting				
17	149-0517	1	Gasket, Fuel Pump Bowl				
18			#Bowl, Fuel Pump (Glass)				
	149-0116	1	Spec A through T (2-3/8")				
	149-1168	1	Begin Spec AA (1-5/8")				
18A			#Bail, Fuel Pump Bowl Retaining				
	149-1006	1	Spec A through T (2-3/8")				
	149-1169	1	Begin Spec AA (1-5/8")				
19	154-0749	1	Manifold, Intake				
20	154-0733	2	**† Gasket, Intake Manifold				
21	520-0526	2	Stud, Carburetor Mounting				
23	159-0640	1	Band, Tank - Housed Sets - Key 1,2				
24	159-0642	1	Cap Assembly - Housed Sets - Key 1,2				

\* - See Separate Group for Components and Service Kits.

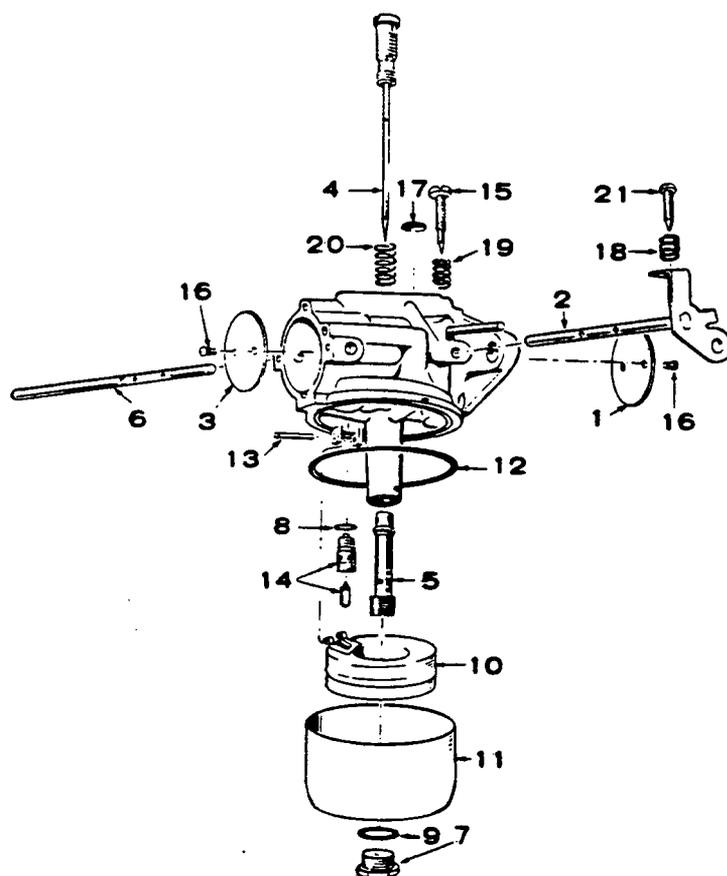
# - Measure for Correct Size When Ordering.

§ - Parts Included in 149-1787 Fuel Pump.

† - Parts Included in 141-0876 Carburetor Kit.

\*\* - Parts Included in 141-0758 Carburetor Kit.

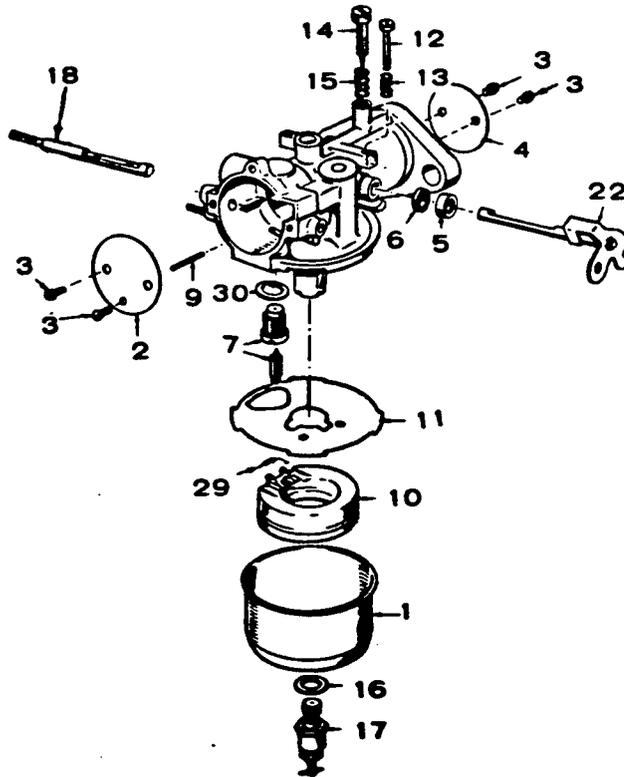
## Carburetor Parts (Gasoline) Spec A through Q



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Carburetor	7	143-0208	1	Screw and Gasket, Bowl
	141-0759	1	Gasoline	8	143-0015	1	*Gasket, Fuel Inlet Valve
	143-0241	1	Repair Kit, Carburetor (Includes Parts Marked **)	9	143-0209	1	*Gasket
	143-0201	1	** Gasket Kit, Carburetor (Includes Parts Marked *)	10	143-0105	1	Float and Lever
	141-0281	1	Gasket, Carburetor Flange (Illustrated in Fuel System Group)	11	143-0210	1	Bowl
1	143-0202	1	Valve, Throttle	12	143-0077	1	*Gasket, Bowl Ring
2	143-0234	1	Shaft and Lever, Throttle	13	141-0703	1	**Pin, Float
3	143-0204	1	Valve, Choke	14	143-0341	1	**Valve, Fuel Inlet
4	143-0235	1	**Needle, Idle Jet and High Speed Adjustment	15	143-0213	1	Screw, Idle Adjustment
5	143-0237	1	**Nozzle	16	812-0014	4	**Screw, Round Head - Machine (#3-48 x 3/16)
6	143-0207	1	Shaft, Choke Spec A and B (No Longer Available)	17	143-0110	1	Plug, Expansion
	143-0315	1	Spec C through Q	18	143-0214	1	Spring, Throttle Adjustment
				19	143-0112	1	Spring, Idle Adjustment
				20	143-0114	1	Spring, High Speed Adjustment
				21	143-0215	1	Screw, Throttle Adjustment

\* - Parts Included in Gasket Kit 143-0201.  
 \*\* - Parts Included in Repair Kit 143-0241.

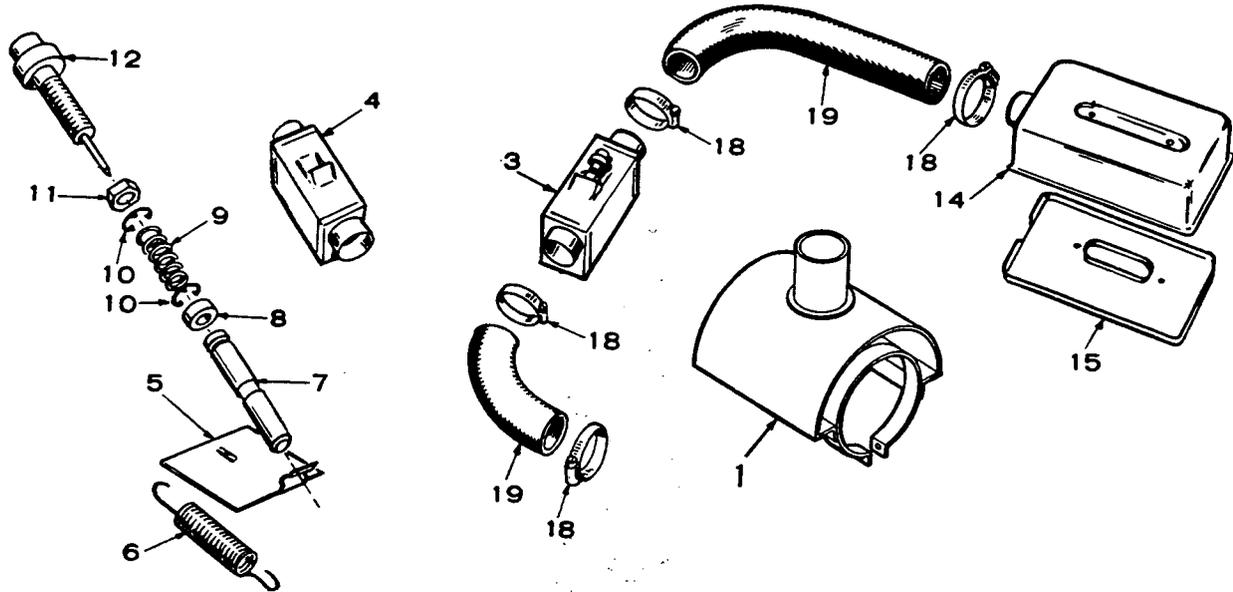
Carburetor Parts (Gasoline)  
Begin Spec R



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	141-0685	1	Carburetor, Gasoline	11	141-0701	1	*+Gasket, Bowl to body
	141-0747	1	Repair Kit (Includes Parts Marked *)	12	141-0700	1	Screw, Throttle Stop
	141-0748	1	Gasket Kit (Includes Parts Marked +)	13	141-0711	1	Spring, Throttle Stop
	141-0281	1	*+Gasket, Carburetor Flange	14	141-0713	1	Needle, Idle Adjusting
1	141-0708	1	Bowl, Fuel	15	141-0710	1	Spring, Idle Needle
2	141-0860	1	Plate, Choke	16	141-0077	1	*+Washer, Main Jet Assembly
3	141-0698	4	Screw and Washer, Choke and Throttle Plate Mounting	17	141-0712	1	Jet Assembly, Main (Adjustable)
4	141-0793	1	Plate, Throttle	18	141-0679	1	Shaft, Choke - Electric
5	141-0705	1	*Retainer, Seal	22	141-0735	1	Shaft and Lever Throttle
6	141-0661	1	*+Seal, Rubber	29	141-0799	1	*Spring, Float
7	141-0798	1	*+Valve Seat Assembly, Fuel	30	141-0811	1	+Washer, Fuel Valve Seat
9	141-0703	1	*+Shaft, Float				
10	141-0702	1	Float Assembly				

\* - Parts Included in Repair Kit 141-0747.  
+ - Parts Included in Gasket Kit 141-0748.

# Carburetor Air Heater

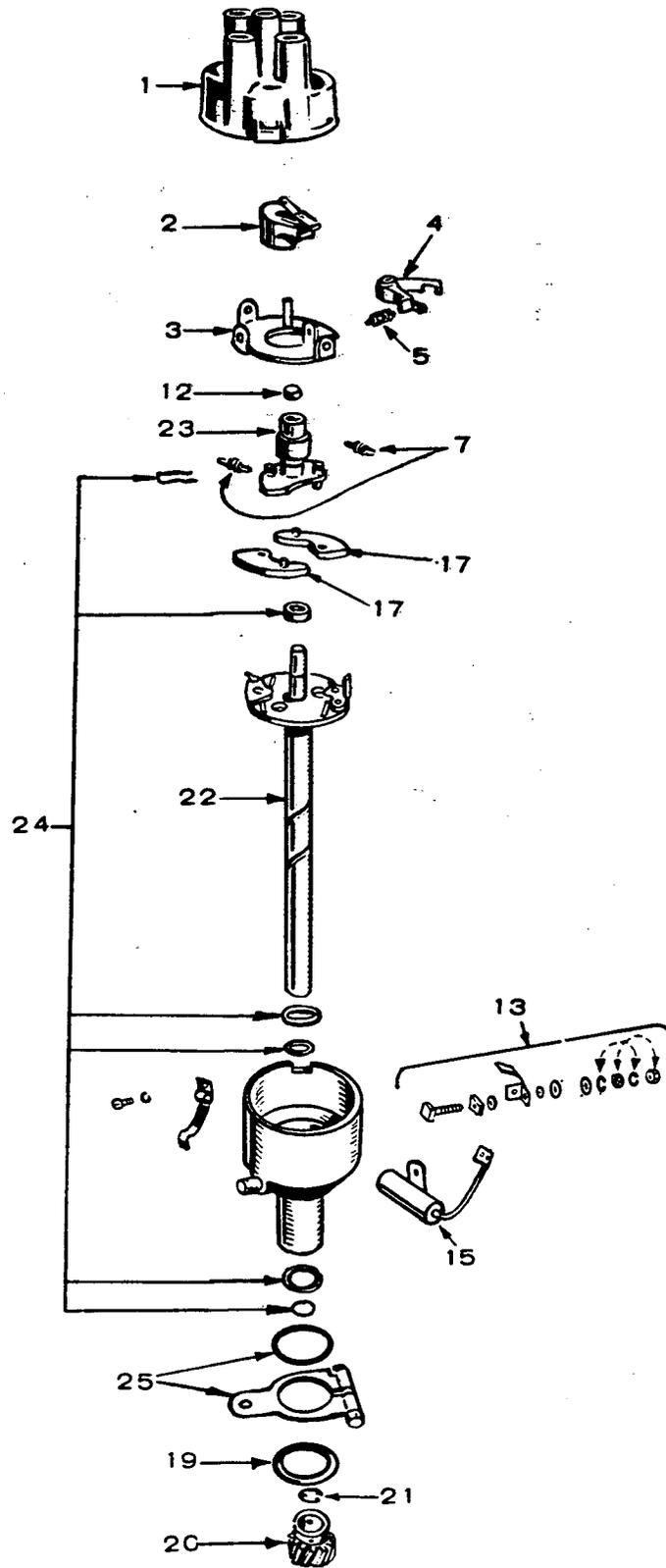


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	140-0895	1	Kit, Air Heater	11	870-0195	1	*Nut, Locking - Vernatherm
1	133-0183	1	Duct, Air Heater	12	309-0181	1	*Vernatherm, Temperature Control
3	140-0904	1	Control Assembly, Temperature (Includes Parts Marked *)	14	140-0790	1	Cover, Air Cleaner
4	140-0903	1	*Housing, Temperature Control	15	140-0791	1	Pan, Air Cleaner
5	140-0782	1	*Shutter, Temperature Control	18	503-0004	4	Clamp, Hose
6	140-0786	1	*Spring, Shutter Control	19	503-0507	2	Hose (Cut to Length) 1-3/4" - Flexible
7	140-0784	1	*Plunger, Temperature Control				
8	140-0808	1	*Spacer, Vernatherm				
9	140-0787	1	*Spring, Vernatherm				
10	518-0205	2	*Ring, Retaining				

\* - Parts Included in 140-0904 Air Heater Control Assembly.



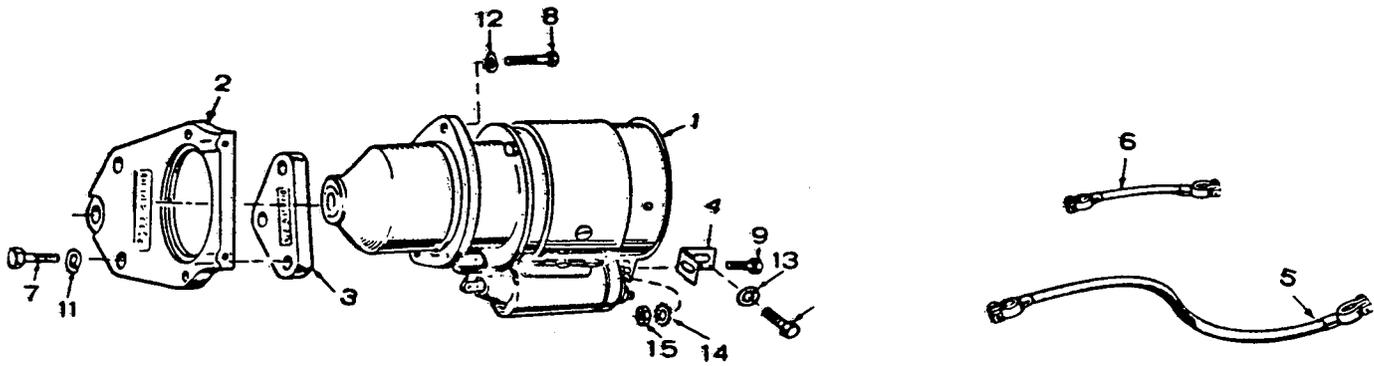
# DISTRIBUTOR



## Distributor

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	166-0309	1	Distributor Assembly, Includes Gear	15	166-0310	1	Condenser
1	166-0235	1	Cap	17	166-0609	1	Weight Set, Governor
2	166-0234	1	Rotor	19	509-0096	1	Seal, Base
3	166-0297	1	Plate, Breaker	20	166-0303	1	Gear, Drive
4	166-0245	1	Point Set, Breaker	21	518-0216	1	Ring, Retaining
5	166-0061	1	Nut, Lock - Contact Screw	22	166-0610	1	Shaft, Drive
7	166-0606	1	Spring Set, Governor Weight	23	166-0611	1	Cam and Stop Plate
12	166-0607	1	Wick Package	24	166-0612	1	Bearing and Parts Package
13	166-0608	1	Terminal Stud and Parts Package	25	166-0308	1	Bracket, Ring

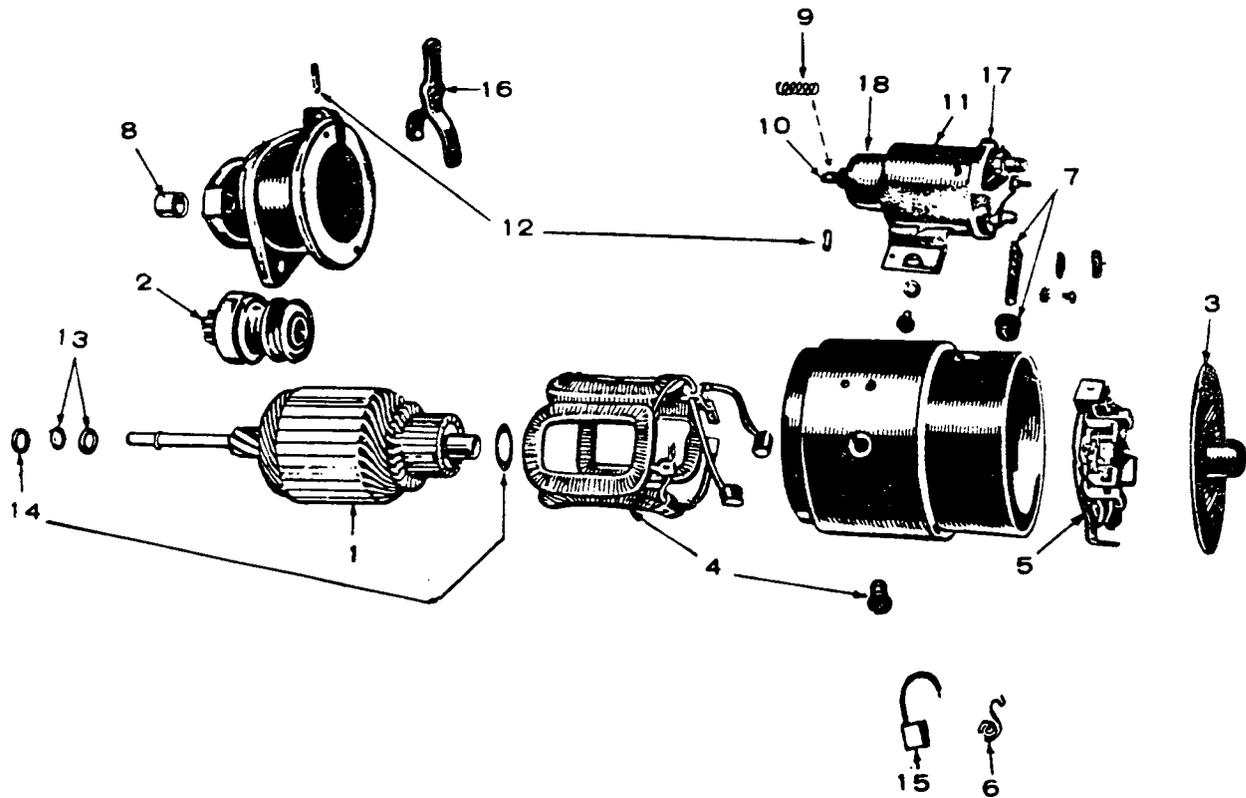
# Starter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-0324	1	†Motor, Starter	10	800-0052	2	Screw, Cap - Hex Head Support Mounting (3/8-16 x 1-1/2")
2	191-0512	1	Flange, Starter Mounting	11	850-0050	2	Washer, Lock - Starter to Flange Mounting (3/8)
3	191-0311	1	Spacer, Starter Flange	12	850-0050	3	Washer, Lock - Starter to Flange Mounting (3/8)
4	191-0365	1	Bracket, Starter Support	13	850-0050	2	Washer, Lock - Support Mounting (3/8)
5	416-0021	2	Cable, Battery	14	856-0010	1	Washer, Lock (EIT) - Bracket to Starter Mounting (3/8)
6	416-0133	1	Cable, Battery Jumper	15	864-0003	1	Nut, Hex - Support Bracket Mounting (3/8-16)
7	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")				
8	800-0054	3	Screw, Cap - Hex Head Starter to Flange Mounting (3/8-16 x 2")				
9	800-0046	1	Screw, Cap - Hex Head Starter Flange Mounting (3/8-16 x 1/2")				

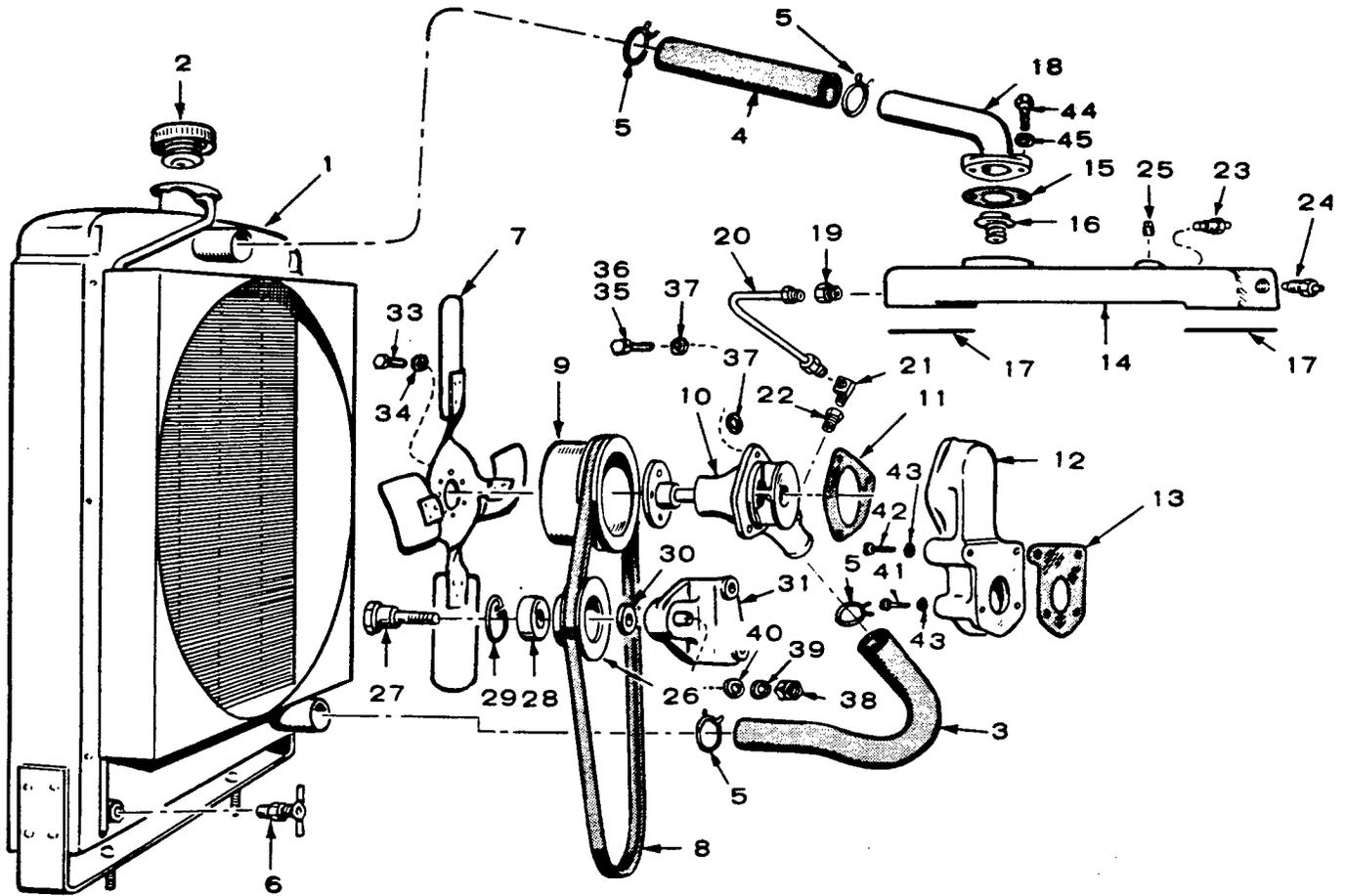
† - See Separate Group for Components.

## Starter Parts



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-0324	1	Starter - 12 Volt	11	191-0433	1	Switch, Solenoid
1	191-0712	1	Armature	12	191-1029	1	Yoke Parts Package
2	191-0432	1	Clutch	13	191-1030	1	Stop and Lock Ring Package, Pinion
3	191-1023	1	Head Assembly, Commutator	14	191-1031	1	Thrust Washer Package, Armature (Use as Required)
4	191-1024	1	Coil Package, Field	15	191-0434	1	Brush Set, Service
5	191-1025	1	Plate Assembly, Brush	16	191-1032	1	Yoke
6	191-1020	1	Spring Set, Brush (Set of 4)	17	191-0468	1	Cover, Solenoid
7	191-1263	1	Connector Package	18	191-1134	1	Boot, Rubber - Solenoid (Part of Moving Core Assembly)
8	191-0497	1	Bearing (Bronze), Drive End				
9	191-1027	1	Spring, Plunger				
10	191-1028	1	Core Assembly, Moving				

# Cooling System - Key 1,2

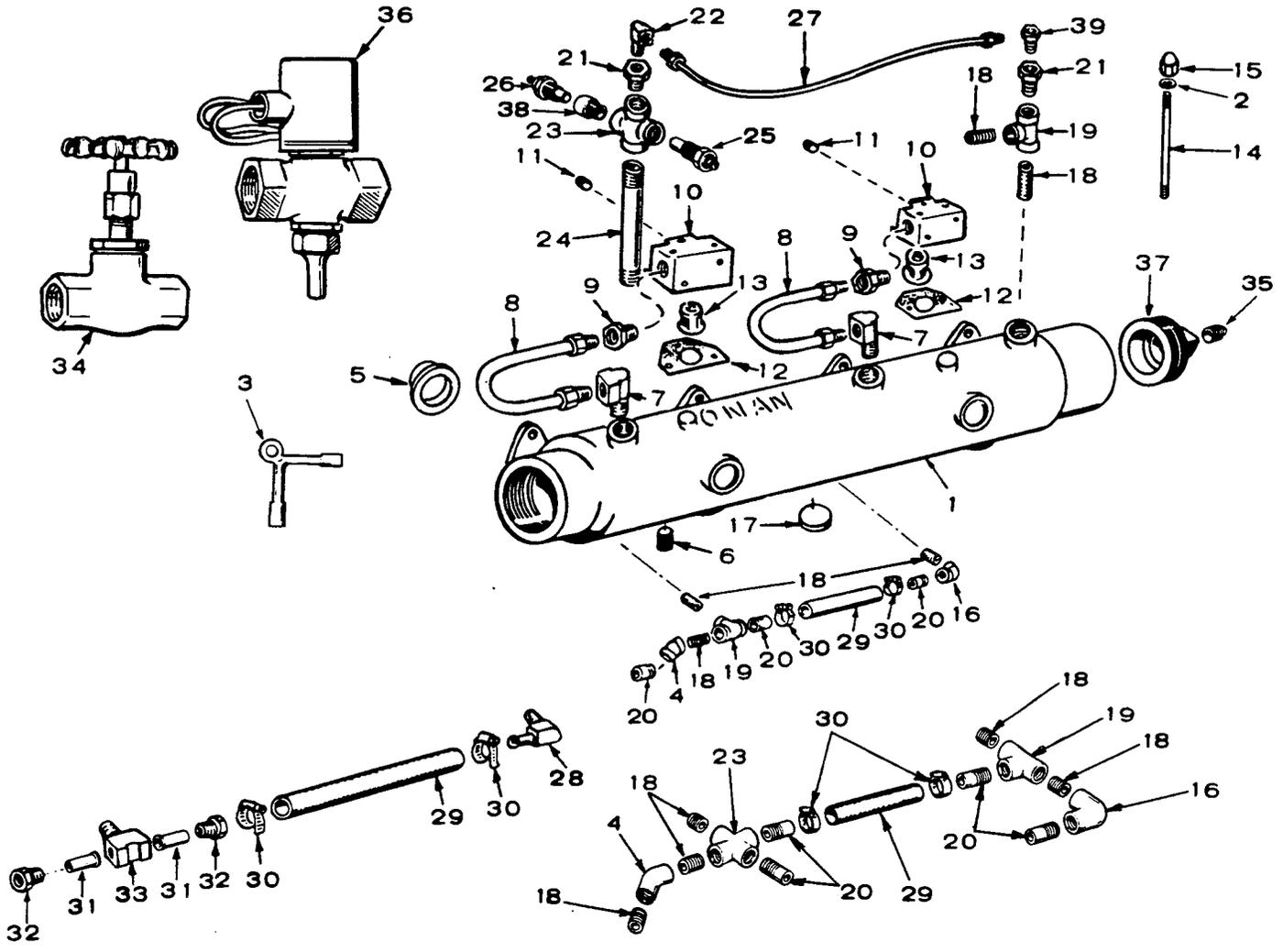


## Cooling System - Key 1,2

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-0569	1	Radiator	28	510-0025	1	Bearing, Ball
2	130-0553	1	Cap, Radiator	29	518-0210	1	Ring, Snap
3	503-0204	1	Hose, Radiator Outlet Curved (1-1/2 ID x 9-7/16")	30	130-0560	1	Spacer, Idler Pulley
4	503-0400	1	Hose, Radiator Inlet (1-1/2 ID x 16-7/8")	31	132-0105	1	Bracket, Idler Pulley
5	503-0129	4	Clamp, Radiator Hose				Spec A through D (Replacement Kit) (Includes Parts Marked †)
6	504-0003	1	Valve, Radiator Drain		130-0680	1	† Begin Spec E
7	130-0343	1	Fan, Radiator - 4 Blade	33	800-0027	4	Screw, Cap - Hex Head Fan to Pulley (5/16-18 x 7/8")
8	511-0066	1	Belt, Fan	34	850-0045	4	Washer, Lock - Fan to Pulley (5/16")
9	512-0039	1	Pulley, Water Pump	35	800-0031	1	Screw, Cap - Hex Head - Water Pump to Housing (5/16-18 x 1-1/2")
10			Kit, Pump - Water (Includes Mounting Gasket)	36	800-0027	2	Screw, Cap - Hex Head - Water Pump to Housing (5/16-18 x 7/8")
	132-0323	1	Spec A through D (Includes Parts Marked †)	37	526-0065	3	Washer, Flat - Water Pump to Housing (21/64" ID x 9/16" OD x 1/16" Thk)
	132-0250	1	† Begin Spec E (Includes Parts Marked *)	38	110-0707	1	Nut, Hex - Idler Pulley Mounting (Special)
11	132-0072	1	†*Gasket, Water Pump Mounting	39	850-0060	1	Washer, Lock - Idler Pulley Mounting (1/2")
12			Housing, Water Pump Spec A through D (Order 132-0105 Water Pump Kit)	40	526-0035	1	Washer, Flat - Idler Pulley Mounting (17/32" ID x 7/8" OD x 1/8" Thk)
	131-0186	1	† Begin Spec E	41	800-0064	2	†Screw, Cap - Hex Head Water Pump Housing Mounting (3/8-16 x 4-1/2")
13	131-0139	1	†Gasket, Water Pump Housing to Block	42	800-0057	2	Screw, Cap - Hex Head Water Pump Housing Mounting (3/8-16 x 2-3/4")
14	131-0137	1	Housing, Water Outlet - Cylinder Head	43	526-0066	4	†Washer, Flat - Water Pump Housing Mounting (25/64" ID x 9/16" OD x 1/16" Thk)
15	131-0140	1	Gasket, Water Outlet Elbow	44	800-0030	2	Screw, Cap - Hex Head Thermostat Cover Mounting (5/16-18 x 1-1/4")
16	309-0054	1	Thermostat	45	526-0065	2	Washer, Flat - Thermostat Cover Mounting (21/64" ID x 9/16" OD x 1/16" Thk)
17	309-0145	2	Gasket, Water Outlet Housing to Heads		800-0058	2	†Screw, Cap - Hex Head (3/8-16 x 3") (Mounting Screw - Not Illustrated)
18	131-0138	1	Elbow, Water Outlet				
19	502-0036	1	Connector, Inverted Male - By-Pass Line to Water Outlet Housing				
20	130-0592	1	Line, Water By-Pass				
21	502-0043	1	Elbow, Inverted Male - By-Pass Line to Pump				
22	505-0019	1	Bushing, Reducer (1/2" x 3/8") - By-Pass Line to Pump				
23	309-0179	1	Switch, High Temperature Cut-Off				
24			Sender, Water Temperature Spec A through AA				
	193-0104	1	Begin Spec AB				
	193-0246	1	Begin Spec AB				
25	505-0110	1	Plug (3/8") - Water Outlet Housing (Note: Early Models used 1/4" Plug - P/N 505-0054)				
26	130-0557	1	Pulley, Idler				
27	130-0556	1	Shaft, Idler Pulley				

\* - Parts Included in 132-0250 Water Pump Kit.  
† - Parts Included in 132-0323 Water Pump Kit.

# Exhaust Cooling System - Key 3,4

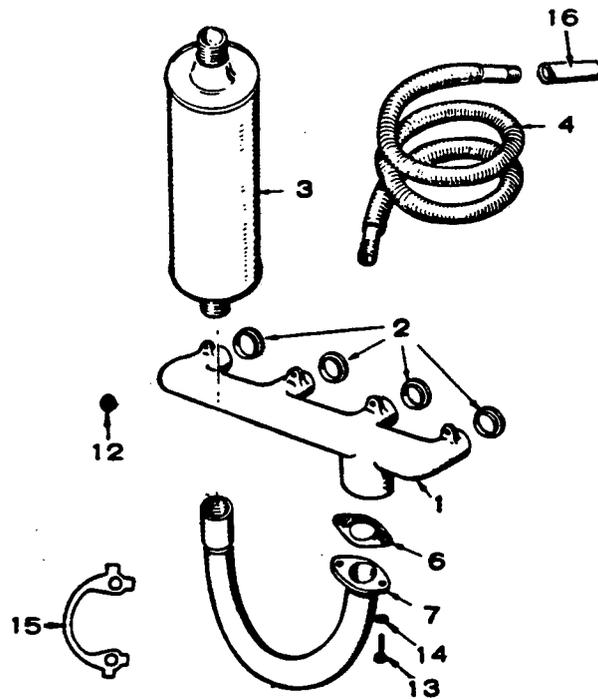


### Exhaust Cooling System - Key 3,4

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2124	1	Manifold Assembly, Exhaust - Water Cooled (Includes Parts Marked *)	21			Bushing, Reduce - Pipe - By-Pass Line
2	526-0022	4	Washer, Flat (21/64" ID x 9/16" OD x 1/16" Thk)	505-0016	2		Sets Without Heat Exchanger
3	504-0020	1	Key, Valve (Used on Early Style Valve) (No Longer Available)	505-0016	1		Sets With Heat Exchanger
4	505-0376	1	Elbow, Pipe (45°)	22	502-0037	1	Elbow, Brass - By-Pass Line
5	154-1057	4	Gasket, Exhaust Manifold	23			Cross, Pipe (3/8")
6			Plug, Pipe (3/8") Exhaust Manifold	505-0475	1		Sets Without Water Jacket Heater (Water By-Pass Line)
	505-0110	1	Square Head (Bottom Mounted)	505-0475	2		Sets With Water Jacket Heater (Water By-Pass Line and Water Inlet)
	505-0266	1	* Countersunk Head (Top Mounted) - Set With Heat Exchanger	24	505-0224	1	Nipple, Pipe (3/8" x 4-1/2")
7			Elbow, Inverted Male (Manifold Water Line Inlet)	25	309-0178	1	Switch, High Water Temperature (Not Used on Pennsylvania Approved Sets)
	502-0074	2	Sets Without Heat Exchanger	26			Sender, Water Temperature
	502-0074	1	Sets With Heat Exchanger	193-0104	1		Spec A through AA
8	130-0510	2	Line, Water - Thermostat Cover to Manifold	193-0246	1		Begin Spec AB
9	502-0103	2	Connector, Inverted Male - Thermostat Cover Outlet	27			Line, Water By-Pass
10	309-0160	2	Cover, Thermostat	130-0633	1		Sets Without Heat Exchanger
11	505-0274	2	Plug, Pipe (1/8") Countersunk - Thermostat Cover	130-0813	1		Sets With Heat Exchanger
12	309-0145	2	Gasket, Thermostat Cover	28	502-0237	1	Elbow, Brass - Water Inlet (Used on Early Models)
13	309-0130	2	Thermostat	29			Hose, Water Inlet
14	520-0143	4	Stud, Thermostat Cover Mounting	503-0394	1		Used With Brass Fittings (1/2" x 9-5/8")
15	869-0002	4	Nut, Acorn (5/16-24) Thermostat Cover	503-0478	1		Used With Pipe Fittings (3/4" x 9")
16	505-0039	1	Elbow, Pipe (3/8" x 1") - Water Inlet	30	503-0183	2	Clamp, Water Inlet Hose
17			*Plug, Exhaust Manifold Expansion (1-1/8" OD)	31	130-0533	2	Adapter, Water Inlet Hose (Used on Early Models)
	517-0041	4	Weich (1-7/16" OD)	32	502-0239	2	Nut, Inverted (Brass) Water Inlet (Used on Early Models)
	517-0059	1	Nipple, Close - Pipe (3/8" x 1")	33	502-0247	1	Tee, Male Branch (Brass) Water Inlet (Used on Early Models)
18			Sets Without Water Jacket Heater	34	504-0019	1	Valve, Globe
	505-0101	5	Sets With Water Jacket Heater	35	502-0080	1	Plug, Square Head (Brass) (1/8") Used on Early Models
	505-0101	7	Sets Without Water Jacket Heater	36	307-0833	1	Valve, Solenoid
19	505-0060	2	Tee, Pipe (3/8") Water Inlet and Exhaust Manifold	37	505-0402	1	Plug, Pipe - Square Head (1-1/2") Begin Spec B
20			Nipple, Half - Pipe (3/8" x 1-1/2") - Water Inlet	38	309-0081	1	Extension, Pipe
	505-0135	3	Sets Without Water Jacket Heater	39	502-0097	1	Connector, Brass - By-Pass Line
	505-0135	4	Sets With Water Jacket Heater				

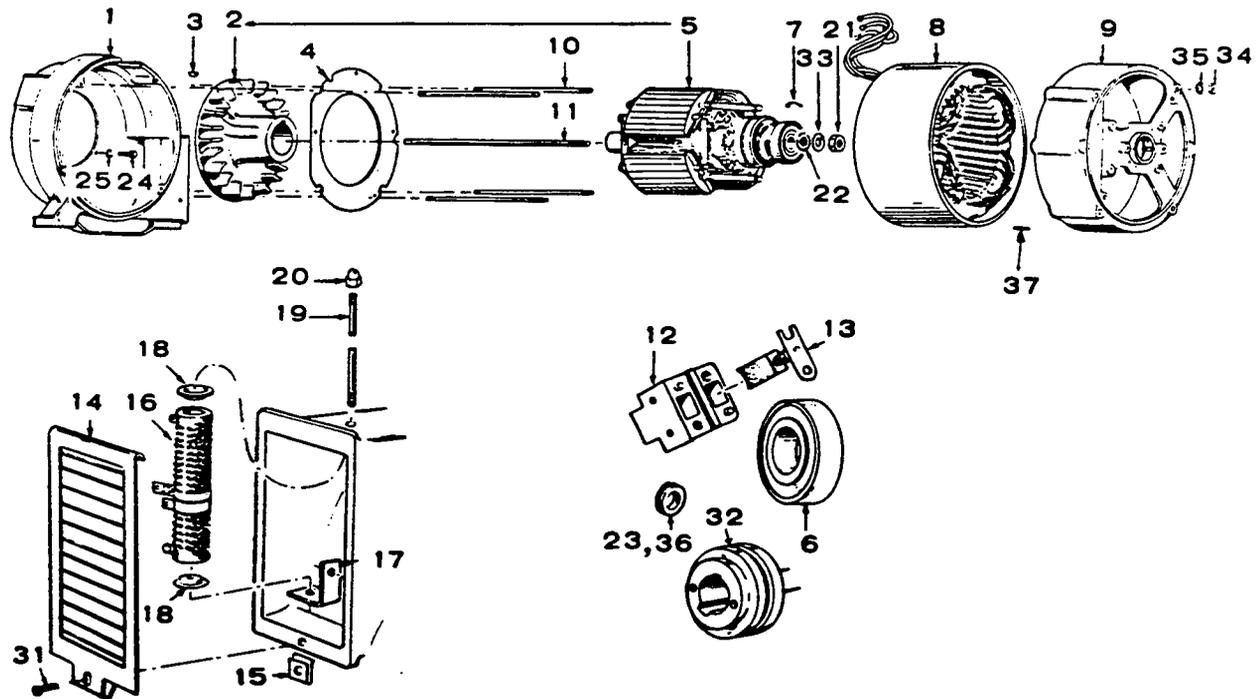
\* - Parts Included in 154-2124 Exhaust Manifold Assembly.

## Exhaust System



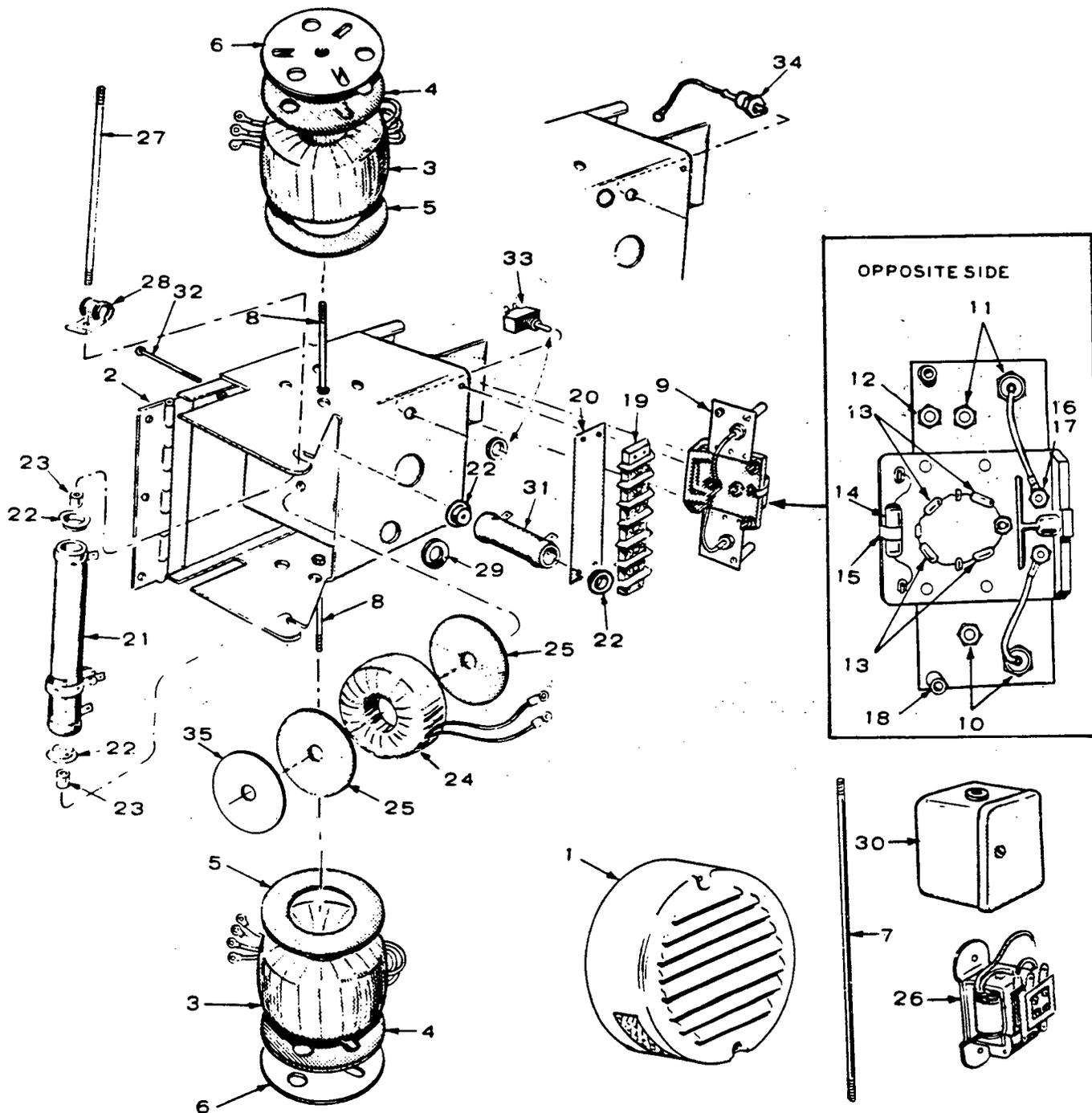
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-0714	1	Manifold, Exhaust - Key 1,2	14	850-0050	2	Washer, Lock - Exhaust Tube Mounting (3/8)
2	154-1057	4	Gasket, Exhaust Manifold	15	154-1665	4	Locktabs - Exhaust Manifold Mounting
3	155-0456	1	Muffler	16	505-0032	1	Coupling (1-1/2") - Use With Exhaust Tube #155-0493
4	155-0493	1	Tube, Exhaust - Flexible				
6	154-0738	1	Gasket, Exhaust Outlet				
7	155-0806	1	Tube, Exhaust Outlet				
12	110-0445	8	Nut, Hex - Exhaust Manifold Mounting (Special)				
13	800-0052	2	Screw, Cap - Hex Head - Exhaust Tube Mounting (3/8-16 x 1-1/2")				

## Generator Spec A through Z



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	231-0096	1	Adapter, Engine to Generator Spec A Only (No Longer Available)	13	214-0059	4	Brush, Collector Ring
	231-0112	1	Begin Spec B	14	234-0199	1	Cover, Air Outlet
2	205-0064	1	Blower, Generator	15	870-0177	1	Clip, Air Outlet Cover
3	515-0006	1	Key, Blower	16	304-0500	1	Resistor, Tapped Adjustable
4	234-0162	1	Baffle, Generator Air	17	232-1565	1	Bracket, Resistor Mounting
5	201-1121	1	Rotor Assembly, Wound (Includes Bearing & Blower)	18	304-0006	2	Washer, Resistor Centering
	201-1122	1	Key 1,3	19	520-0620	1	Stud, Resistor Mounting
	201-1122	1	Key 2,4	20	866-0001	1	Nut, Acorn - Resistor Mounting (1/4-20)
6	510-0047	1	Bearing, Rotor	21	870-0203	1	Nut, Hex - Rotor Through Stud (Special)
7	232-0596	1	Clip, Bearing Stop	22	232-0200	1	Washer, Tapered - Rotor Through Stud
8	220-0732	1	Stator Assembly, Wound 60 Hertz Sets 12.5 RJC	23	508-0095	1	Grommet, Rubber - Air Baffle
	220-0884	1	1 Phase	24	800-0050	2	Screw, Cap - Hex Head 3/8-16 x 1"
	220-0736	1	3 Phase - 120/240 Volt 15.0 RJC	25	800-0051	2	3/8-16 x 1-1/4"
9	211-0146	1	1 Phase	25	850-0050	4	Washer, Lock - Adapter Mounting (3/8")
			Bell, End Alternator to Exciter	31		1	Screw, Round Head - Machine Air Outlet Cover Mounting (10-24 x 5/8")
10	520-0638	4	Stud, Generator Through	32	204-0061	1	Collector Ring
	520-0640	4	Key 1,3	33	850-0055	1	Washer, Lock (7/16")
			Key 2,4	34	862-0015	4	Nut, Hex (5/16-18) - Generator through Stud
11	520-0613	1	Stud, Rotor Through	35	850-0045	4	Washer, Lock (5/16")
	520-0615	1	Key 1,3	36	508-0112	1	Grommet, Rubber - Lead Out
	520-0615	1	Key 2,4	37	516-0138	2	Pin, Roll - Alignment (3/16 x 5/8")
12	212-1064	2	Block, Collector Ring Brush				

# Generator Exciter Spec A Through Z



**NOTE:** 06SX1N1B used on 60 hertz Models Spec A, B & C.  
 06SC1N1B used on all 60 hertz Models Spec A, B & C.  
 06SX1N3B used on all 60 hertz Models except 120/240 volt, 3 phase Models begin Spec D.  
 06SX51N1B used on 50 hertz Models Spec's A, B & C.  
 06SX51N1B used on all 50 hertz Models except 120/240 volt, 3 phase Models begin Spec S.  
 06SC51N3B used on all 50 hertz Models except 120/240 volt, 3 phase Models begin Spec D.

Check set nameplate for Magneciter number and use correct column.

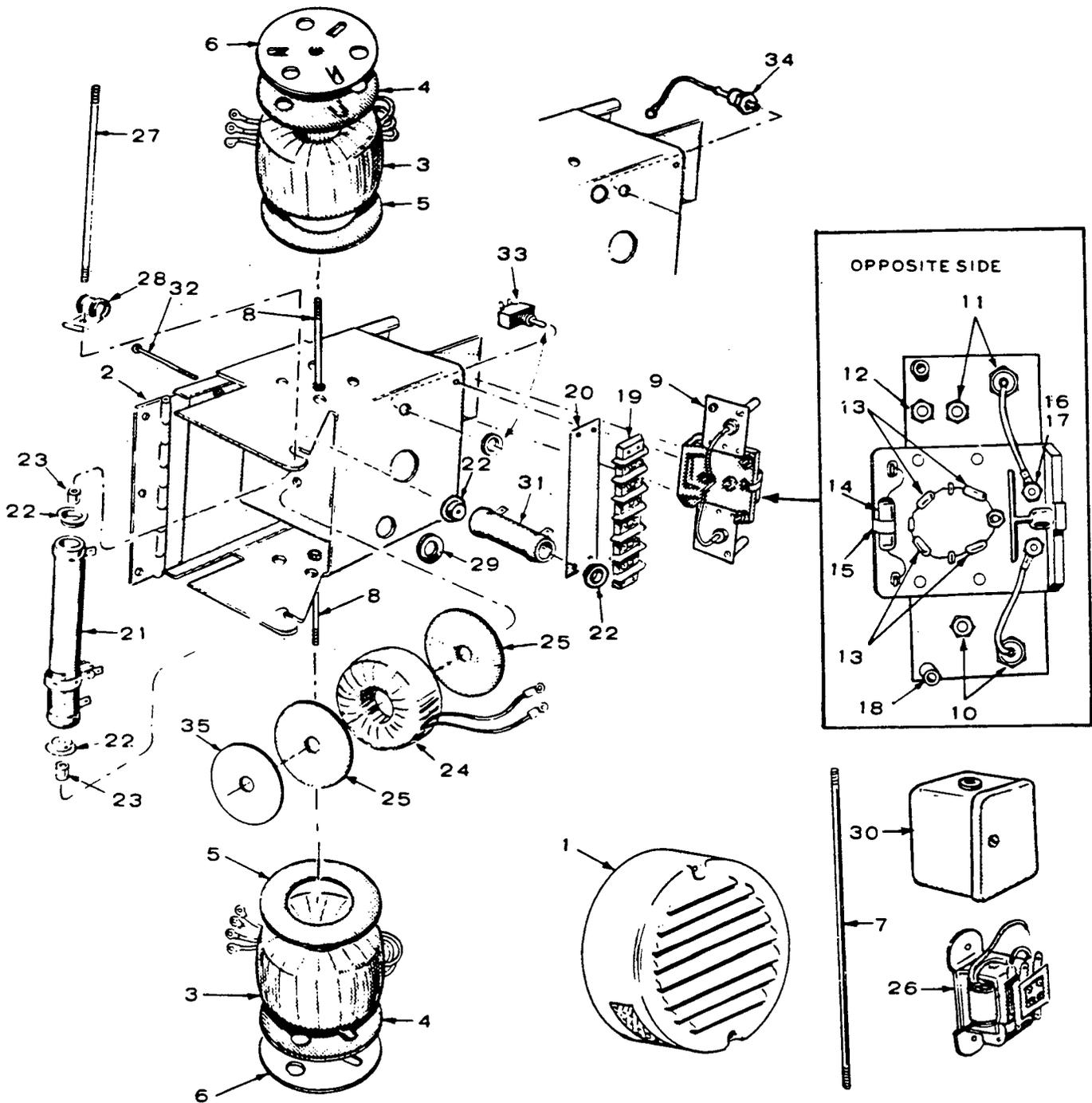
## Generator Exciter Spec A Through Z

NOTE: 06SX1N1B used on 60 hertz Models Spec A, B & C.  
 06SC1N1B used on all 60 hertz Models Spec A, B & C.  
 06SX1N3B used on all 60 hertz Models except 120/240 volt, 3 phase Model begin Spec D.  
 06SX51N1B used on 50 hertz Models Spec's A, B & C.  
 06SX51N1B used on all 50 hertz Models except 120/240 volt, 3 phase Models begin Spec S.  
 06SC51N3B used on all 50 hertz Models except 120/240 volt, 3 phase Models begin Spec D.

Check set nameplate for Magnecciter number and use correct column.

REF NO.	PART NO.	PART DESCRIPTION	QUANTITY USED											
			A	B	C	D	E	F	G	H	J	K		
	02SX1N1A	Use Column A	X											
	04SX1N1A	Use Column B		X										
	04SX1N1B	Use Column C			X									
	04SX1N3B	Use Column D				X								
	06SX1N1A	Use Column E					X							
	06SX1N1B	Use Column F						X						
	06SX1N3B	Use Column G							X					
	06SX51N1A	Use Column H								X				
	06SX51N1B	Use Column J									X			
	06SX51N3B	Use Column K										X		
	209-0001	Exciter, Complete (Less Cover)	1											
	209-0002	Exciter, Complete (Less Cover)		1										
	209-0003	Exciter, Complete (Less Cover)			1									
	209-0005	Exciter, Complete (Less Cover)				1								
	209-0007	Exciter, Complete (Less Cover)					1							
	209-0008	Exciter, Complete (Less Cover)						1						
	209-0010	Exciter, Complete (Less Cover)							1					
	209-0011	Exciter, Complete (Less Cover)								1				
	209-0012	Exciter, Complete (Less Cover)									1			
	209-0013	Exciter, Complete (Less Cover)										1		
1	234-0154	*Cover, Exciter (No Longer Available)	1	1			1			1				
1	234-0185	*Cover, Exciter			1	1		1	1		1	1		
2	234-0153	Panel Only, Exciter	1	1			1			1				
2	234-0188	Panel Only, Exciter			1	1		1	1		1	1		
3	315-0084	Reactor, Gate	2											
3	315-0099	Reactor, Gate		2	2	2								
3	315-0102	Reactor, Gate					2	2	2					
3	315-0104	Reactor, Gate								2	2	2		
4	232-1553	Gasket, Gate Reactor Mounting - Outer	2	2	2	2		2	2		2	2		
4	232-1608	Gasket, Gate Reactor-Outer(No Longer Avail.)					2	2	2	2	2	2		
5	232-1551	Gasket, Gate Reactor Mounting - Inner	2	2	2	2	2	2	2	2	2	2		
6	232-1552	Retainer, Gate Reactor	2	2	2	2		2	2		2	2		
6	234-0191	Retainer, Gate Reactor					2			2				
7	520-0211	Stud, Gate Reactor Mounting	1	1			1			1				
8	800-0013	Screw, Cap - Hex Head (1/4-20 x 2-1/2")			2	2								
8	800-0015	Screw, Cap - Hex Head (1/4-20 x 3")						2	2			2	2	
9	305-0259	Rectifier Assembly (Includes Parts Marked †)	1	1	1									
9	305-0387	Rectifier Assembly (Includes Parts Marked @)				1								
9	305-0264	Rectifier Assembly (Includes Parts Marked *)					1	1		1	1			
9	305-0388	Rectifier Assembly (Includes Parts Marked §)							1				1	
10	305-0238	†@§Rectifier Only, Power Field (Negative)	2	2	2	2	2	2	2	2	2	2	2	
11	305-0239	§@*Rectifier Only, Power Field (Positive)	2	2	2	2	2	2	2	2	2	2	2	
12	305-0239	@§Rectifier Only, Field Flash				1			1				1	
13	305-0240	†@§Rectifier, Voltage Control	4	4	4	4	4	4	4	4	4	4	4	
14	304-0476	†@Resistor (500-Ohm, 5 Watt)	1	1	1	1								
14	304-0512	*§Resistor (150-Ohm, 50 Watt)					1	1	1	1	1	1	1	
15	304-0498	†@*§Clip, Resistor Mounting	1	1	1	1	1	1	1	1	1	1	1	
16	332-0697	†@*§Stud, Terminal (Flat Head)	2	2	2	2	2	2	2	2	2	2	2	
17	332-0698	†@*§Stud, Terminal (Extended Slotted Head)	1	1	1	1	1	1	1	1	1	1	1	
18	870-0196	†@*§Fastener (Compression Type)	2	2	2	2	2	2	2	2	2	2	2	
19	332-0699	Block, Terminal	1	1			1			1				
19	332-0745	Block, Terminal			1	1		1	1			1	1	
20	332-0700	Strip, Block Marker (No Longer Available)	1											
20	332-0738	Strip, Block Marker (No Longer Available)		1			1			1				
20	332-0746	Strip, Block Marker			1			1			1			
20	332-0925	Strip, Block Marker				1			1				1	

# Generator Exciter Spec A Through Z



**NOTE:** 06SX1N1B used on 60 hertz Models Spec A, B & C.  
 06SC1N1B used on all 60 hertz Models Spec A, B & C.  
 06SX1N3B used on all 60 hertz Models except 120/240 volt, 3 phase Models begin Spec D.  
 06SX51N1B used on 50 hertz Models Spec's A, B & C.  
 06SX51N1B used on all 50 hertz Models except 120/240 volt, 3 phase Models begin Spec S.  
 06SC51N3B used on all 50 hertz Models except 120/240 volt, 3 phase Models begin Spec D.

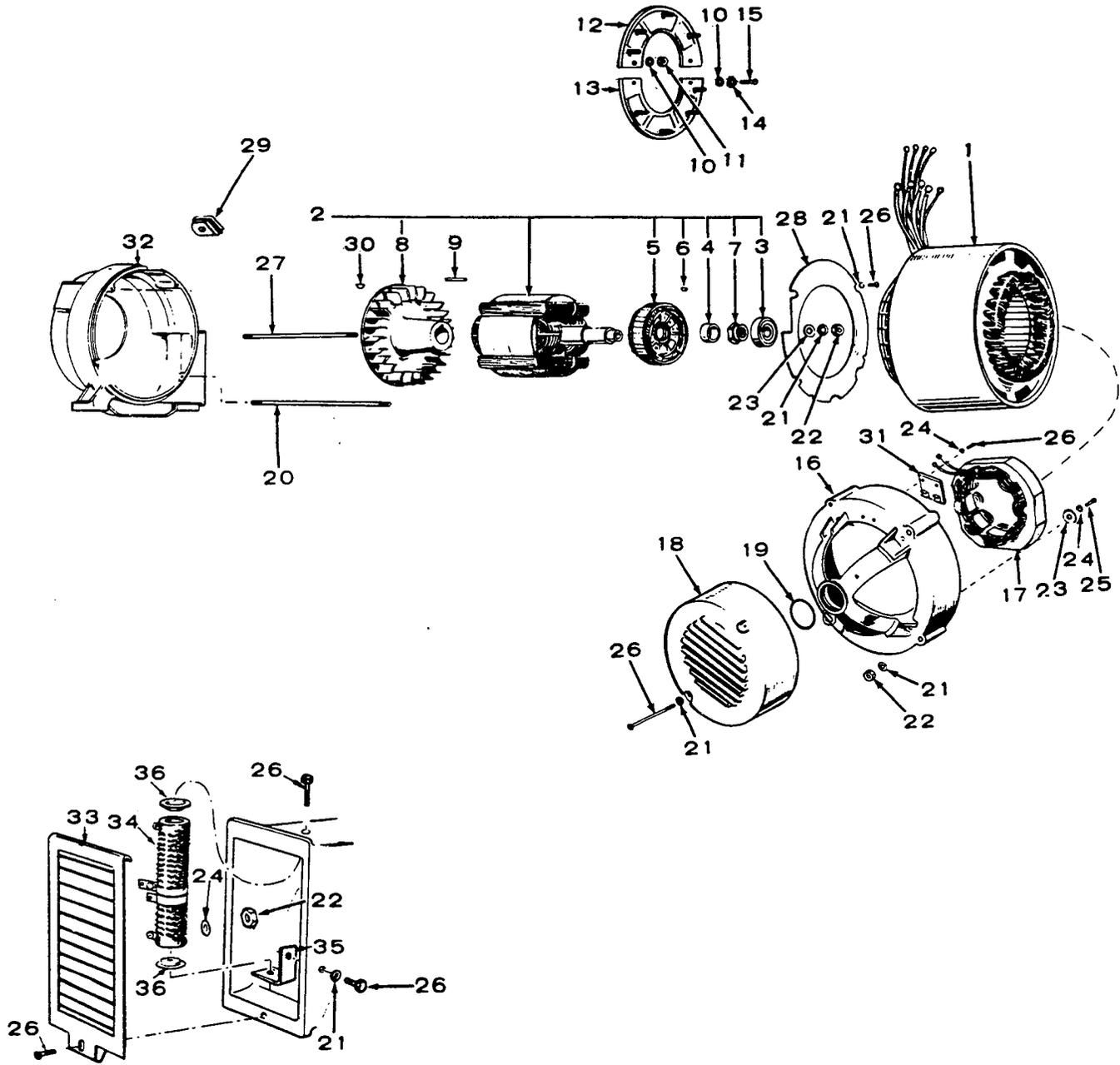
Check set nameplate for Magneciter number and use correct column.

## Generator Exciter Spec A Through Z

REF NO.	PART NO.	PART DESCRIPTION	QUANTITY USED												
			A	B	C	D	E	F	G	H	J	K			
21	304-0489	Resistor, Fixed (200-Ohm, 50 Watt)	1												
21	304-0511	Resistor, Tapped - 500-Ohm (425 Fixed, 75 Adj.)		1			1				1				
21	304-0527	Resistor, Tapped - 500-Ohm (425 Fixed, 75 Adj.)			1	1		1	1			1	1		
22	304-0015	Washer, Centering - Resistor	2	4	4	4	4	4	4	4	4	4	4	4	4
23	232-1473	Spacer, Resistor Mounting	2												
23	232-1550	Spacer, Resistor Mounting (No Longer Avail.)		2				2				2			
23	232-1474	Spacer, Resistor Mounting			2	2			2	2			2	2	
24	315-0085	Reactor, Voltage Control	1												
24	315-0100	Reactor, Voltage Control		1	1	1	1	1	1	1					
24	315-0105	Reactor, Voltage Control										1	1	1	
25	232-1548	Gasket, Voltage Control Reactor	2	2	2	2	2	2	2	2	2	2	2	2	2
26	307-0584	Relay, Field Build-Up	1												
27	520-0641	Stud, Tapped Resistor Mounting	1		1	1		1	1			1	1		
27	812-0116	Screw, Tapped Resistor Mounting (RHMS #10-24 x 4-1/2")		1				1				1			
28	332-0050	Clip, Loop	1	1				1				1			
28	332-0052	Clip, Loop			1	1		1	1			1	1	1	
29	508-0008	Grommet, Rubber (For 7/8" Hole)	1	1	1	1	1	1	1	1	1	1	1	1	1
30	307-0643	Cover, Field Relay (No Longer Available)	1												
31	304-0510	Resistor, Fixed (250-Ohm, 25 Watt)		1	1	1	1	1	1	1	1	1	1	1	1
32	813-0112	Screw, Fixed Resistor Mounting (RHMS #10-32 x 2-1/2")		1	1	1	1	1	1	1	1	1	1	1	1
33	308-0175	Switch, Residual Reset			1			1				1			
34	305-0238	Rectifier, Power Field - Negative				1				1					1
35	526-0173	Washer, Retainer - Voltage Control Reactor	1	1	1	1	1	1	1	1	1	1	1	1	1
ASSOCIATED HARDWARE (NOT ILLUSTRATED)															
		Screw, Machine - Round Head													
812-0156		1/4-20 x 1-1/2"													As Required
813-0101		#10-32 x 9/16"													As Required
811-0098		#10-32 x 3/8" (Brass)													As Required
813-0098		#10-32 x 3/8"													As Required
815-0190		#8-32 x 3/8"													As Required
815-0198		#8-32 x 5/8"													As Required
815-0001		Screw, Machine - Binder Head (Brass) (#6-32 x 1/4")													As Required
		Washer, Flat													
526-0003		11/64" ID x 3/8" OD x 1/32" Thk													As Required
526-0048		.172" ID x 3/8" OD x 1/32" Thk													As Required
526-0049		.200" ID x 7/16" OD x 1/32" Thk													As Required
526-0179		7/32" ID x 5/8" OD x 1/16" Thk													As Required
		Washer, Lock - Spring													
850-0030		#10													As Required
850-0040		1/4"													As Required
853-0005		Washer, Lock - ET													As Required
		Washer, Lock - IT													
854-0007		#8													As Required
854-0010		#10													As Required
854-0014		1/4"													As Required
		Nut, Hex													
860-0008		#8-32													As Required
860-0011		#10-24													As Required
862-0001		1/4-20													As Required
870-0053		#10-32													As Required
		#6-32 (Brass)													As Required
871-0007		#8-32 (Brass)													As Required
871-0010		#10-32 (Brass)													As Required

- \* - Use 234-0223 cover for housed sets.
- † - Parts included in 305-0259 Rectifier Assembly.
- @ - Parts included in 305-0387 Rectifier Assembly.
- \* - Parts included in 305-0264 Rectifier Assembly.
- § - Parts included in 305-0388 Rectifier Assembly.

# Generator - Begin Spec AA

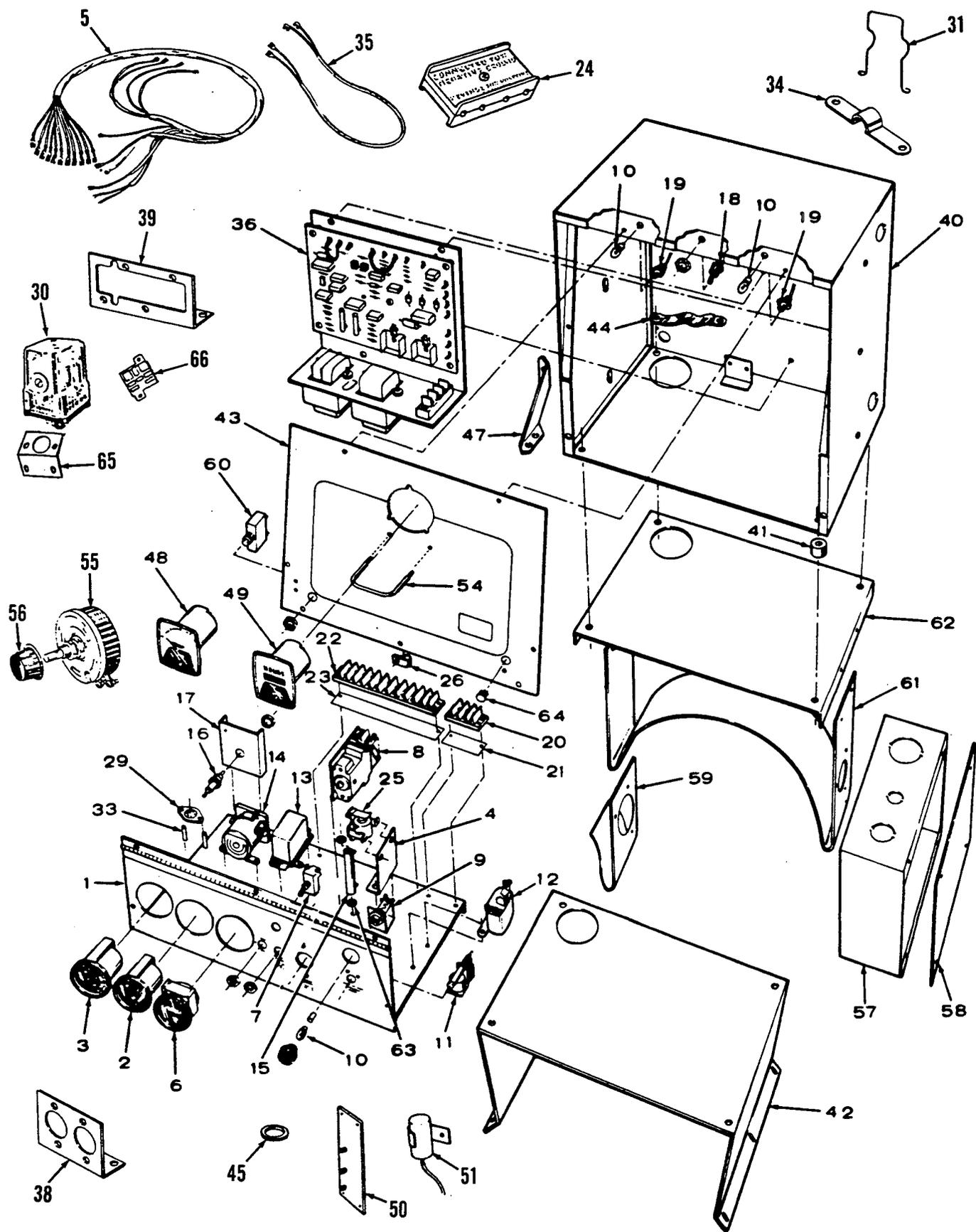


## Generator - Begin Spec AA

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator Assembly, Wound	22			Nut, Hex
			60 Hertz Sets	862-0011	4		Generator Through Stud (3/8-16)
			12.5 RJC	870-0203	1		Rotor Through Stud (7/16-20)
	220-2017	1	Single Phase	871-0010	1		Resistor Tap (#10-32)
	220-2042	1	Three Phase - All	23			Washer, Flat
			Except 347/600 Volts	526-0260	2		Exciter Stator Mounting (.280 ID x 1.25 OD x 10 Gauge Thk)
	220-2285	1	Three Phase - 347/600 Volts Only	232-0200	1		Rotor Through Stud (Special)
			15.0 RJC	24			Washer, Shakeproof
	220-2018	1	Single Phase	853-0013	2		Exciter Stator Mounting (1/4")
	220-2043	1	Three Phase - All	856-0003	1		Tapped Resistor (#10)
			Except 347/600 Volts	25			Screw, Cap - Hex Head - Exciter Stator Mounting (1/4-20 x 5/8")
	220-2286	1	Three Phase - 347/600 Volts Only	26			Screw, Round Head - Machine End Bell Cover (1/4-20 x 4-1/2")
			50 Hertz Sets	812-0165	2		Connection Board Mounting (10-32 x 3/8" Lg)
			12.5 RJC	815-0194	4		Baffle Mounting (#10-32 x 3/8")
	220-2026	1	Single Phase	813-0098	4		Resistor Bracket Mounting (1/4-20 x 5/8")
	220-2051	1	Three Phase	812-0150	2		Resistor Mounting (1/4-20 x 5-1/2")
2			Rotor Assembly, Wound	812-0167	1		Resistor Tap (#10-32 x 3/8")
			(Includes Parts Marked +)	27			Stud, Rotor Through
	201-2157	1	Key 1,3	520-0789	1		Key 1,3
	201-2158	1	Key 2,4	520-0790	1		Key 2,4
3	510-0112	1	+Bearing, Rotor	28			Baffle, Air
4	232-2398	1	+Spacer, Bearing	29			Grommet, Rubber
5	201-2151	1	+Rotor, Exciter - Wound	508-0112	1		2-3/4 x 1-7/8" (Lead Outlet)
6	515-0094	1	+Key, Exciter Rotor (Nylon Insert - 1-1/8 - 12 UNP)	508-0095	1		25/32" x 21/32"
7	870-0284	1	+Nut, Lock - Exciter Rotor (Nylon Insert - 1-1/8 - 12 UNP)	30			Key, Fan
8	205-0105	1	+Fan, Generator	31			Board, Connection
9	515-0103	1	+Key, Fan	32			Adapter, Generator
10	526-0008	12	+Washer, Flat (13/64 ID x 7/16 OD x 1/32" Thk)	33			Cover, Air Outlet
11	870-0131	8	+Nut, Hex (#10-32)	34			Resistor, Tapped (Adjustable) For Sets with 12 or 24 Volt DC
12	358-0069	1	+Rectifier Assembly (Positive)	304-0500	1		For Sets with 32 Volt DC
13	358-0070	1	+Rectifier Assembly (Negative)	35			Bracket, Resistor Mounting
14	853-0008	4	+Washer, Shakeproof (#10)	36			Washer, Centering - Resistor Mounting
15	813-0100	4	+Screw, Round Head - Machine (#10-32 x 1/2")				
16	211-0237	1	Bell, End				
17	220-2009	1	Stator, Exciter - Wound				
18			Cover, End Bell				
	234-0185	1	Without Overspeed				
	234-0498	1	With Overspeed				
19	509-0094	1	Seal, Bearing ("O" Ring)				
20			Stud, Generator Through				
	520-0797	4	Key 1,3				
	520-0798	4	Key 2,4				
21			Washer, Lock				
	850-0050	4	Generator Through Stud (3/8")				
	850-0040	2	End Bell Cover Mounting (1/4")				
	850-0040	2	Resistor Bracket Mounting (1/4")				
	850-0040	1	Resistor Through Screw (1/4")				
	850-0030	4	Air Baffle Mounting (#10)				
	850-0055	1	Rotor Through Stud (7/16")				

+ - Parts Included in the Rotor Assembly.

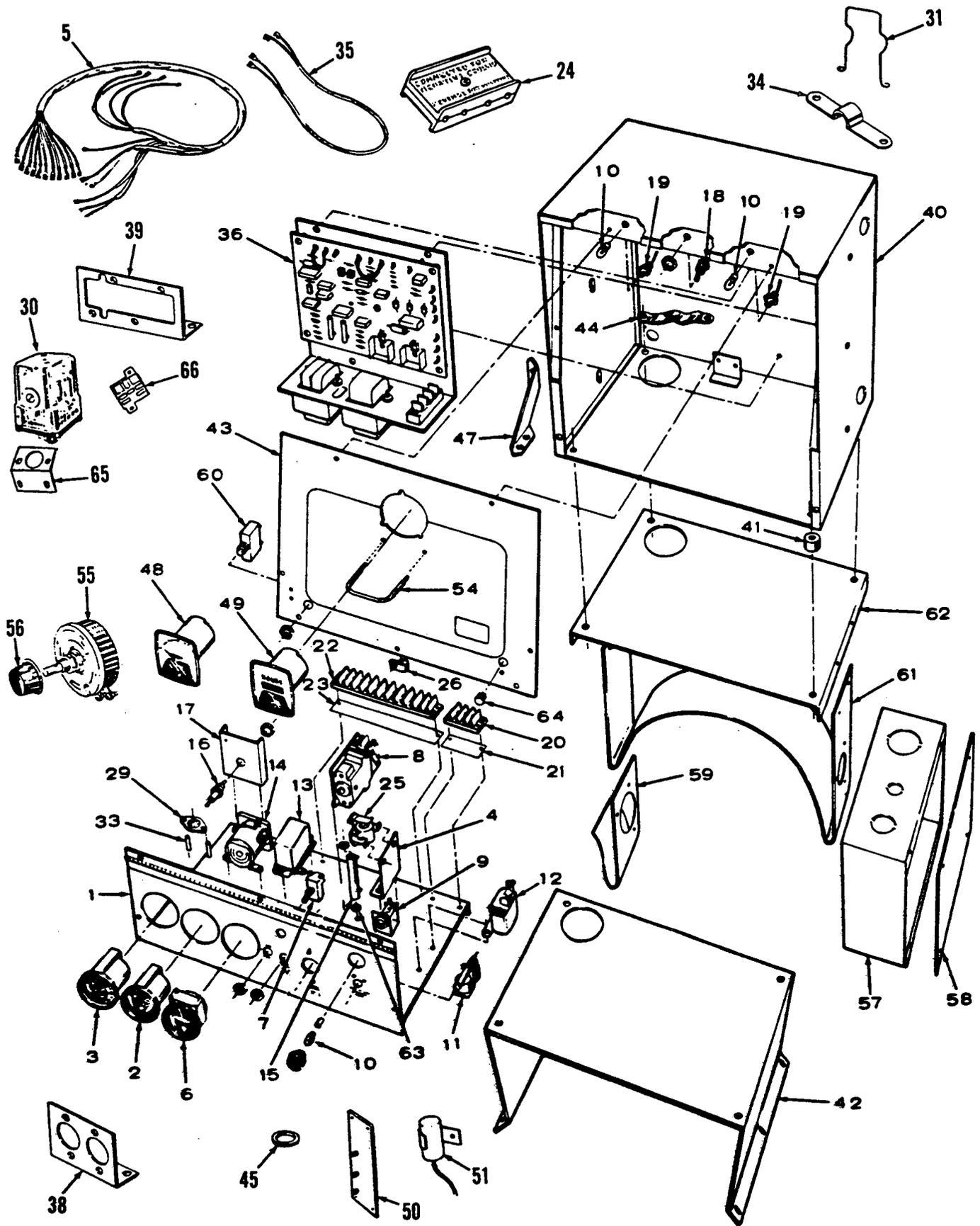
# Control



## Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-2124	1	Panel, Lower Control	30			Relay
	302-2125	1	Sets With 1 Signal Light		307-0819	1	Sets With Low Engine Temperature Switch
2			Sets With 4 Signal Lights		307-0819	1	Sets With Low Oil Pressure Switch
	193-0106	1	Gauge, Water Temperature		307-0819	1	Sets With High Water Temperature Switch
	193-0245	1	Spec A through AA				
			Begin Spec AB				
3			Gauge, Oil Pressure	31	307-0778	3	Spring, Relay Holddown Sets with Low Engine Temperature, Low Oil Pressure, High Water Temperature Switches
	193-0107	1	Spec A through AA				
	193-0243	1	Spec AB				
	193-0272	1	Begin Spec AC				
4	301-1685	1	Bracket, Time Delay Relay Mounting (Sets with Low Oil Pressure Switch)	33	332-0943	2	Spacer, Relay Socket
				34	332-1043	1	Jumper, Terminal Board - Begin Spec A B
5	338-0338	1	Harness, Wiring - Engine to Control	35			Harness, Wiring
6	302-1366	1	Ammeter, Charge		338-0763	1	Voltage Regulator to Circuit Breaker
7	308-0138	1	Switch, Selector - Run-Stop-Remote		338-0936	1	Voltage Regulator to Running Time Meter
8			Limiters, Cranking				
	320-0104	1	Switch	36	305-0583	1	Regulator, Voltage - Begin Spec AA (See Separate Group for Components)
	320-0259	1	Relay				
9	322-0069	1	Receptacle, Signal Light				Bracket, Relay Mounting (Sets with Four Signal Lights)
10	322-0004	3	Bulb, Signal and Panel Light				
11			Relay, Emergency				
	307-0655	1	Latching	38	301-2393	1	Used for Low Oil Pressure and High Water Temperature Relays or 5 and 10 second Cycle Cranker Relays
	307-0655	1	Low Oil Pressure Shutdown				
	307-0655	1	High Water Temperature Shutdown				
	307-0655	1	Overspeed Shutdown	39	301-3252	1	Used for Generating and Low Engine Temperature Relays - Begin Spec AB
12	307-0052	1	Relay, Start Disconnect				
13	307-0597	1	Relay, Ignition				
14	307-0514	1	Relay - Starter Pilot	40	301-2115	1	Box, Control
15	304-0192	1	Resistor, Cranking Limiter (3 Ohm, 10 Watt)	41	402-0078	4	Mount, Rubber
				42	301-2106	1	Bracket, Mounting - Control Box (Unhoused Sets) - Spec A through T
16	305-0673	1	Rectifier, Charge (10 Amp, 100 Volt) - Includes Mounting Hardware	43			Panel, Upper Control (Sets Without Optional Meter Panel) Spec A through Z
17	305-0254	1	Bracket, Rectifier Mounting				All Except Pennsylvania Approved Sets
18	308-0002	1	Switch, Panel Light				Begin Spec AA
19	322-0072	2	Receptacle, Panel Light		301-1195	1	All Except Pennsylvania Approved Sets
20	332-0611	2	Block, Terminal - 3 Place (Remote)				
21	332-1009	1	Strip, Marker - 3 Place		301-2019	1	All Except Pennsylvania Approved Sets
22			Block, Terminal				
	332-0607	1	Sets With 1 Signal Light (12 Place)	44			Strap, Ground (Unhoused Sets) Spec A through Z
	332-1005	1	Sets With 4 Signal Lights (20 Place)		337-0044	1	Begin Spec AA
				45	337-0036	1	Grommet, Rubber
23			Strip, Marker		508-0063	2	2-3/4" Hole - Unhoused Sets (Housed Sets Use 1)
			Sets With 1 Signal Light (12 Place)		508-0183	1	1-3/4" Hole - Output Box
	332-0642	1	Spec A and B (Blank)				
	332-0608	1	Begin Spec C	47	301-1914	1	Bracket, Panel Stop
	332-1006	1	Sets With 4 Signal Lights (20 Place)	48			Voltmeter, AC
24	332-0750	1	Kit, Polarity Marker - Spec A through N		302-0421	1	Single Phase Sets (Scale Reads 0-300)
25	307-0388	1	Relay, Time Delay (Sets With Low Oil Pressure Switch)		302-0422	1	Three Phase Sets (Scale Reads 0-600)
26			Clip, Harness Support		302-0423	1	Three Phase Sets (Scale Reads 0-750)
	416-0096	1	1/2" ID	49			Meter, Running Time - Begin Spec AA
	332-0052	1	5/8" ID				
29	323-0321	3	Socket, Low Engine Temperature, Low Oil Pressure, High Water Temperature Relay		302-0468	1	50 Hertz Sets
					302-0465	1	60 Hertz Sets
				50	332-0513	1	Block, Terminal - 4 Place

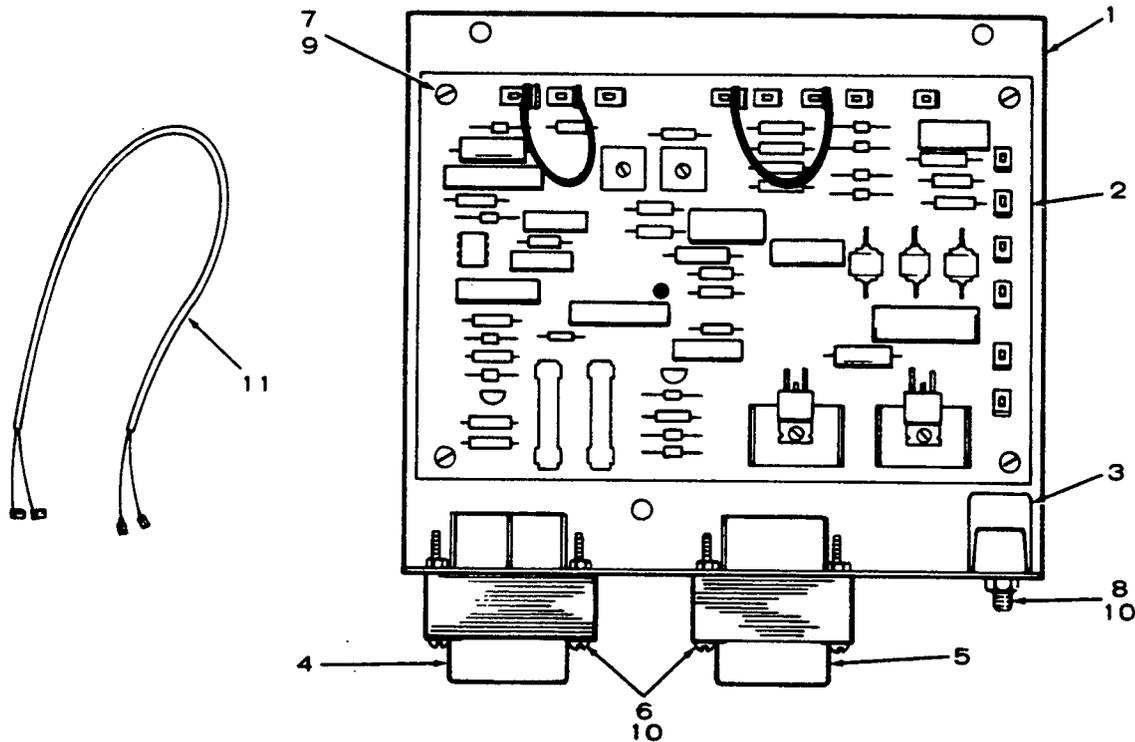
# Control



## Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
51	312-0058	3	Condenser (.1 Mfd.) Spec A through Z	60	320-0505	1	Breaker, Circuit - Voltage Regulator - Begin Spec AA
54	301-2727	1	Handle, Upper Control Panel	61	301-3715	1	Saddle, Control Box Mounting (Unhoused Sets) Begin Spec AA
55	303-0197	1	Rheostat (2500 Ohm, 25 Watt) Sets With Voltage Adjustment - Begin Spec AA	62	301-3716	1	Plate, Control Mounting (Unhoused Sets) - Begin Spec AA
56	303-0032	1	Knob, Rheostat - Sets With Voltage Adjustment - Begin Spec AA	63	508-0017	2	Washer, Fiber - Resistor Mounting
57	301-3682	1	Box, Output - Begin Spec AA	64	517-0015	1	Plug, Dot Button
58	301-0856	1	Cover, Output Box - Begin Spec AA	65	301-3241	1	Bracket, Low Engine Temperature Relay
59	301-3720	1	Bracket, Output Box (Housed Sets) Begin Spec AA	66	323-0760	1	Socket, Relay

Voltage Regulator  
Begin Spec AA



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	305-0583	1	Regulator, Voltage (Includes Parts Marked *)	6	812-0070	4	*Screw, Machine - Round Head (#6-32 x 1-1/4")
1	301-3719	1	*Panel, Voltage Regulator Mounting	7	812-0061	4	*Screw, Machine - Round Head (#6-32 x 3/8")
2			Board, Voltage Regulator (See Separate Parts Catalog #900-0234 for Components)	8	812-0063	2	*Screw, Machine - Round Head (#6-32 x 1/2")
	300-1540	1	*† Begin Spec AB	9	853-0003	4	*Washer, Lock - ET (#6)
	300-1404	1	Begin Serial #F760142042 During Spec AA	10	870-0183	6	*Nut, Hex - ET (#6-32)
	300-1404	1	Prior to Serial #F760142042 During Spec AA	11			Harness, Wiring (Voltage Regulator to Exciter Stator)
3	332-1655	1	*Strip, Terminal		338-0762	1	Sets Without Overspeed Switch
4	315-0386	1	*Transformer, Voltage		338-0768	1	Sets With Overspeed Switch
5	315-0391	1	*Reactor				

\* - Parts Included in 305-0583 Voltage Regulator.  
† - Complete Replacement for 300-1404 and 300-1006 Regulator Board Assy.

### Service Kits and Miscellaneous

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	98-1807	1	Decal Kit, Plant				Touch-Up Paint (Pressurized Can)
	168-0099	1	Gasket Kit, Plant				
	522-0211	1	Overhaul Kit, Set	525-0137		1	Silver Green (13 oz.)
	522-0236	1	Spec A through Q	525-0305		1	Non-metallic Green (13 oz.)
			Begin Spec R				

**THE FOLLOWING SECTION IS A  
SPECIAL PARTS LIST  
FOR  
PENNSYLVANIA APPROVED  
GENERATING SETS**

Refer first to this list for Pennsylvania Approved sets. Parts not in this list refer to the main parts list. When referring to the main parts list, reference to Spec letter or voltage also applies to these sets.

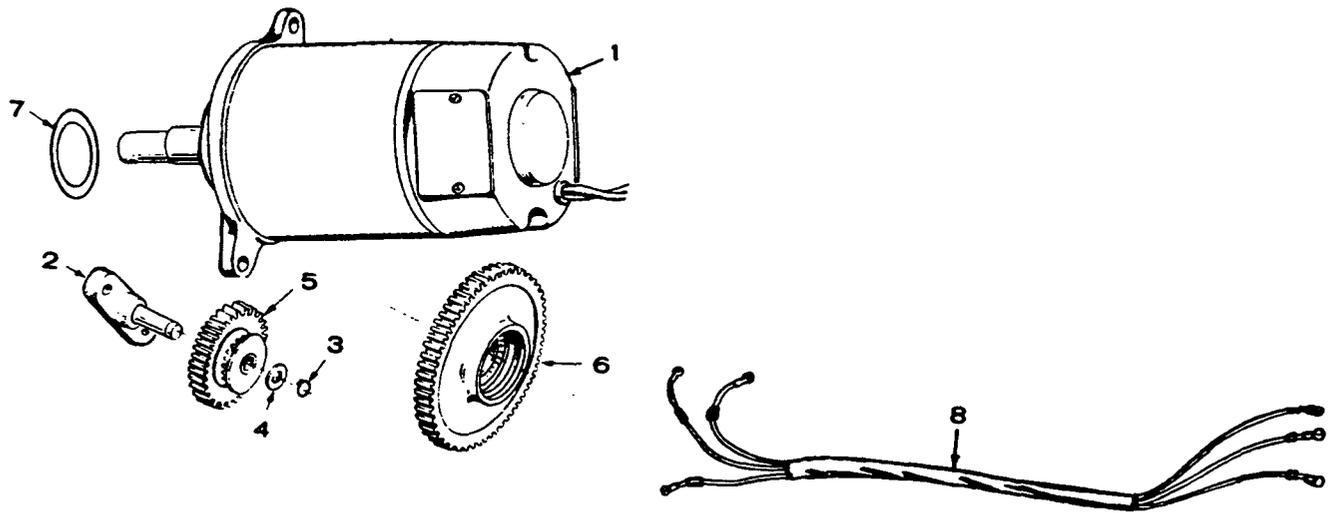
These sets are recognized by the numbers 30 (Gasoline Fuel), 31 (Gaseous Fuel), or 131 (Liquid Petroleum Fuel) appearing in the model. These numbers appear just before the diagonal line (/). (Example: 12.5RJC-4R31/1T).

The Specification Letter advances (A to B, B to C, etc.) with manufacturing changes.

**Control (Special List)  
(Not Illustrated)**

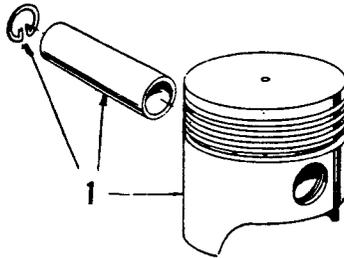
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-2895	1	Panel, Lower (Sets Without Signal Lights)	5			Panel, Upper (Sets Without Meter Panel)
2	308-0005	1	Switch, Selector - Run-Remote	301-2019		1	Spec A through Z
3	332-0795	1	Block, Terminal - 16 Place (Sets Without Signal Lights)	301-1788		1	Begin Spec AA
4	332-0862	1	Strip, Marker - 16 Place (Sets Without Signal Lights)				

**Starter (Special List)  
Spec A through Q**



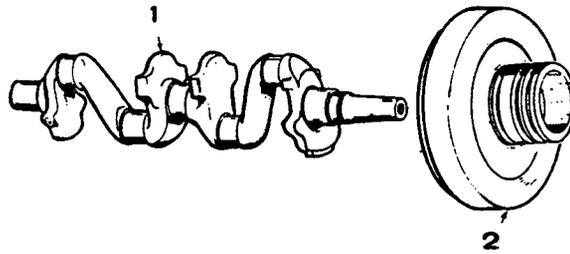
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-0453	1	Motor, Starter (12 Volt) - Includes Gear and Pin	5	191-0457	1	Gear Assembly, Idler (No Longer Available)
2	191-0342	1	Base and Shaft, Idler Gear (No Longer Available)	6	191-0354	1	Gear and Clutch Assembly, Crankshaft (No Longer Available)
3	518-0196	1	Ring, Retaining - Idler Gear (No Longer Available)	7	509-0093	1	Seal, "O" Ring - Starter Mounting
4	526-0175	1	Washer, Thrust - Idler Gear (41/64 ID x 29/32 OD x 1/16" Thk)	8	336-1199	1	Harness, Starter to Control

# Piston and Rod (Special List)



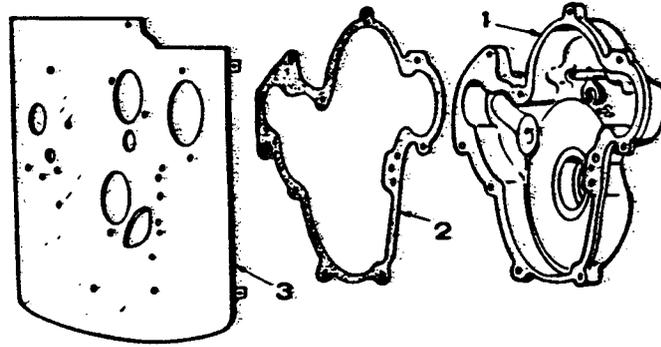
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Piston and Pin Assembly (Includes Pin Retaining Rings) - Gas Only Sets				
	112-0174	4	Standard				
	112-0174-10	4	.010" Oversize				
	112-0174-20	4	.020" Oversize				
	112-0174-30	4	.030" Oversize				

# Crankshaft and Flywheel (Special List)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-0477	1	Crankshaft				
2	104-0556		Flywheel				

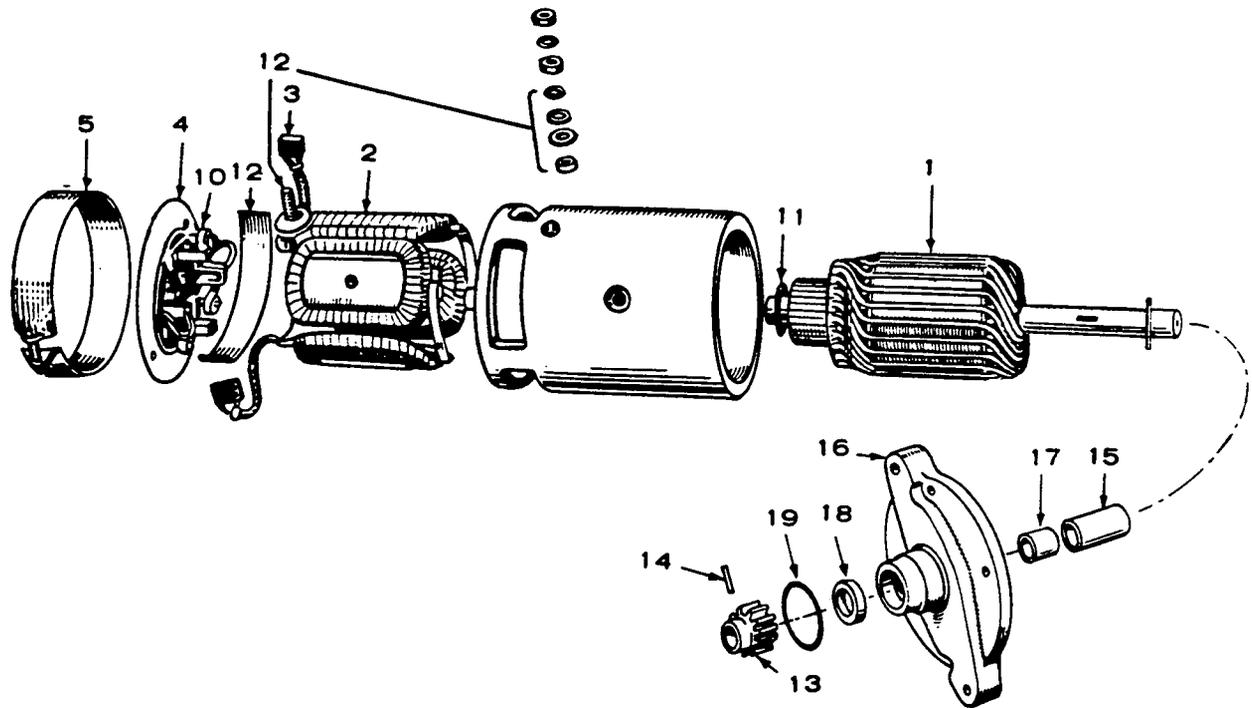
# Gearcase (Special List)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	103-0279	1	Cover Assembly, Gear - Complete

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	103-0231	1	Gasket, Gear Cover
3	103-0228	1	Backplate, Gear Cover

**Starter Parts (Special List)  
Spec A through Q**

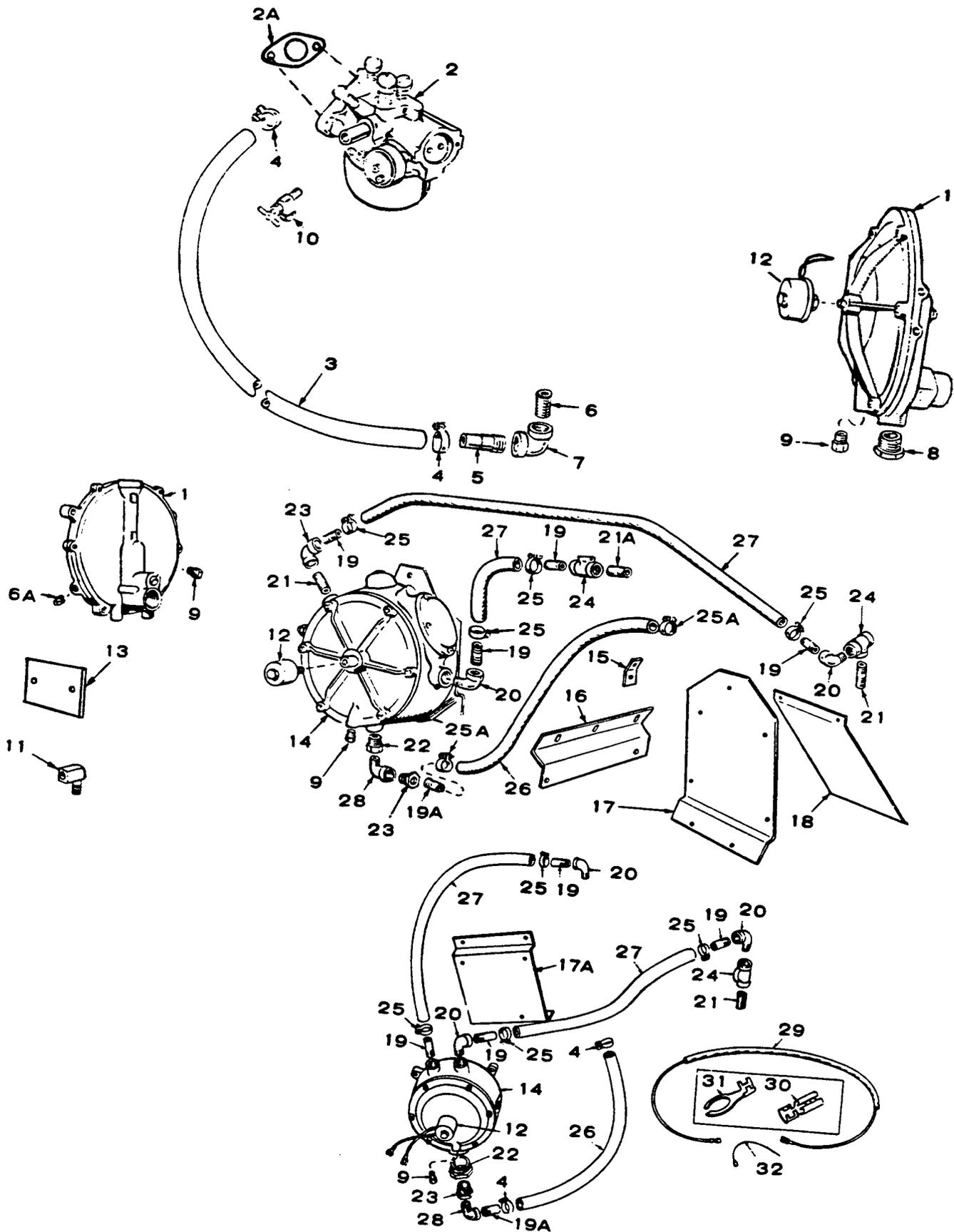


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-0453	1	Motor, Starting (12 Volt)	13	191-0450	1	Gear, Pinion (No Longer Available)
1	191-0452	1	Armature (No Longer Available)	14	516-0154	1	Pin, Pinion Gear (No Longer Available)
2	191-1017	1	Coil Assembly, Field	15	191-0451	1	Spacer, Armature to Adapter
3	191-0513	1	Brush Set, Service	16	191-0446	1	Adapter (No Longer Available)
4	191-1018	1	Head Assembly, Commutator End	17	191-0329	1	Bushing, Adapter
5		1	Band, Cover (Not Sold Separately)	18	509-0092	1	Seal, Oil Armature Shaft - Front
10	191-1020	1	Spring, Brush (Set of 4)	19	509-0093	1	Seal, "O" Ring - Starter Motor Mounting
11	191-1021	1	Washer, Armature Thrust (Package) Use as Required				
12	191-1022	1	Stud, Terminal (Package)				

## OPTIONAL PARTS SECTION

This section contains illustrated parts listing of factory installed options for the generator sets. Options may not be applicable to all models; for field conversions additional parts are usually required. Optional parts listed in this section are in addition or in place of those shown in the standard parts section.

Fuel System - Optional  
(Gas and Gas-Gasoline)



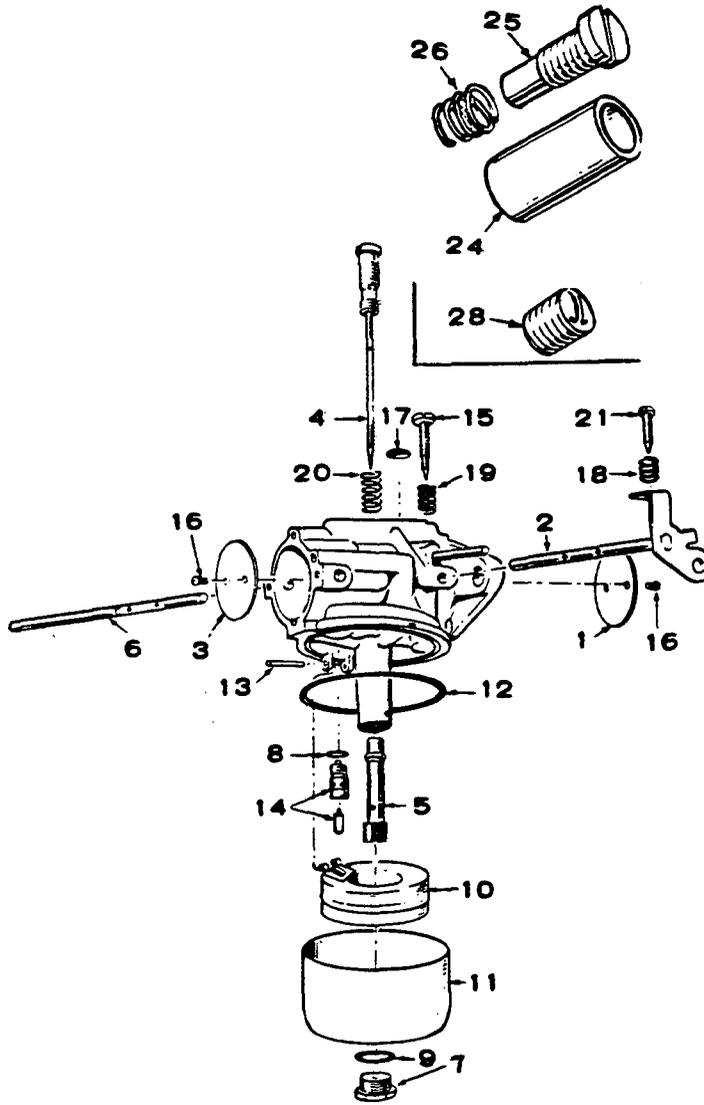
## Fuel System - Optional (Gas and Gas-Gasoline)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1		1	Regulator, Gas	19	505-0135	4	Nipple, Half (3/8 x 1-1/2") - Hose Connection - LPG Sets - Key 1,2
	148-0311	1	Algas Manufacturing Order 148-0311				
2		1	Garretson Manufacturing Carburetor Kit (See Separate Group for Components and Service Kits) (Includes Parts Marked +)	19A	505-0110	1	Nipple, Half (1/4 x 1") - Hose Connection - LPG Sets - Key 1,2
	141-0757	1	Gas Fueled Sets	20			Elbow, Street - LPG Sets - Key 1,2
	141-0889	1	Spec A through Q		505-0120	4	* 3/8 x 90°
	141-0758	1	Begin Spec R		505-0120	3	§ 3/8 x 90°
	141-0886	1	Gas-Gasoline Fueled Sets	21			Nipple, Hose Connection - LPG Sets - Key 1,2
2A	154-0733	1	Spec A through Q		505-0101	2	* 3/8 x 3"
3	503-0159	1	Begin Spec R		505-0101	1	§ 3/8 x 3"
		1	+Gasket, Carburetor Mounting	21A	505-0076	1	*Nipple (3/8 x 3") - Hose Connector - LPG Sets - Key 1,2
4		1	Hose, Regulator to Carburetor (1/2 ID x 34" Long)				Bushing, Reducer - LPG Sets - Key 1,2
	503-0032	2	Clamp, Gas Hose	22			* 3/4 x 3/8"
	503-0446	1	Spec A through Z		505-0120	1	§ 1 x 1/2"
5	148-0519	1	Begin Spec AA		505-0022	1	Bushing, Reducer - LPG Sets - Key 1,2
6	505-0101	1	Connector, Hose - Regulator	23			* 3/8 x 1/4"
6A	505-0057	1	Nipple (3/8 x 1") - Regulator Outlet		505-0017	1	§ 1/2 x 1/4"
7	505-0039	1	Plug (1/8") - Regulator Outlet		505-0018	1	* Tee, Pipe - LPG Sets - Key 1,2
8	505-0128	1	Elbow (3/8") - Regulator Outlet	24			* 3/8"
9	148-0107	2	Bushing (1-1/4" x 3/8") - Algas Regulator Outlet		505-0060	2	§ 3/8"
10	504-0007	1	Vent, Regulator and Converter		505-0060	1	Clamp, Hose - LPG Sets - Key 1,2
		1	Valve, Shutoff (Mounts at Fuel Pump Inlet) - Gas-Gasoline Sets	25	503-0183	4	Clamp, Gas Hose
11	502-0020	1	Fuel Pump Inlet) - Gas-Gasoline Sets	25A	503-0032	2	Hose, Gas - LPG Sets - (1/2 ID x 34" Long)
12	307-0615	1	Elbow, Street - Fuel Pump Inlet (Gas-Gasoline Sets)	26	503-0586	1	Hose, Water - LPG Sets - Key 1,2 (5/8 ID x 50" Long)
13	149-0638	1	Primer, Solenoid	27	503-1025	1	§Elbow, Street - LPG Sets - Key 1,2 (1/4 x 90°)
14	148-0714	1	Plate, Fuel Pump Hole Cover - Gas Only Sets	28	505-0011	1	§Lead, 36" - LPG Sets - Key 1,2
		1	Converter, LPG Sets - Key 1,2 (See Note)	29	336-1844	1	§Terminal, Faston - LPG Sets - Key 1,2
		1	Bracket, Converter Mounting - LPG Sets - Key 1,2	30	332-0529	1	§Terminal, Blade - LPG Sets - Key 1,2
15	148-0546	1	* Top, Unhoused Sets	31	332-0881	1	Wire, Choke Lock - Gas-Gasoline Sets
16	148-0547	1	* Bottom, Unhoused Sets	32	143-0231	1	
17	148-0551	1	* Housed Sets				
17A	148-0667	1	§ Housed and Unhoused Sets				
18	148-0552	1	* Brace, Converter Mounting - Housed Sets - Key 1,2 - LPG Sets				

+ - Parts Included in 141-0757 Carburetor Kit.  
 Parts Included in 141-0758 Carburetor Kit.  
 Parts Included in 141-0886 Carburetor Kit.  
 Parts Included in 141-0889 Carburetor Kit.

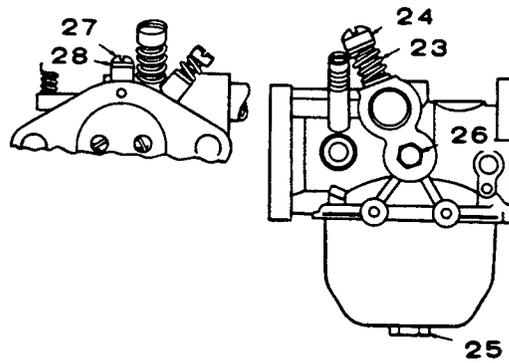
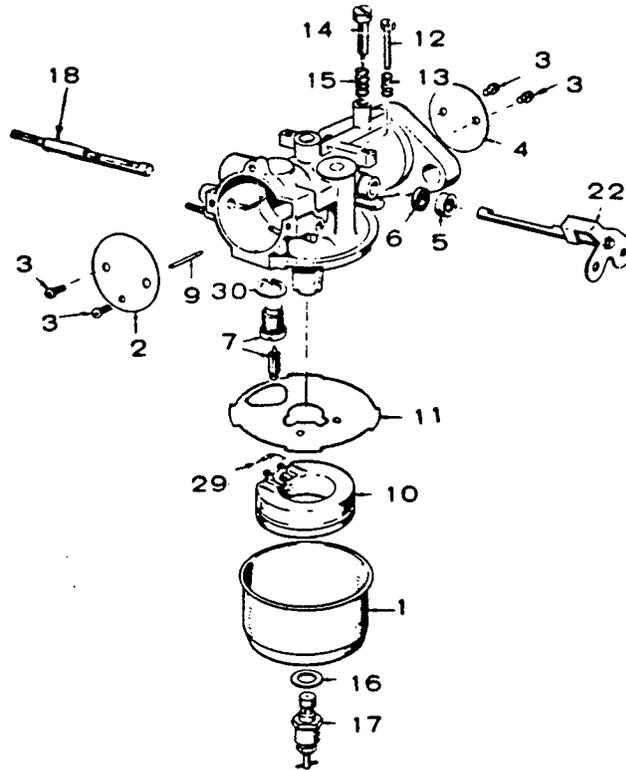
**NOTE:** Parts for LPG sets built prior to June 1, 1968 (two piece converter mounting brackets and water hoses connected on sides of converter) only are marked with \*. Parts for LPG sets built beginning June 1, 1968 (one piece converter mounting bracket and both water hoses connected on the top of converter) only are marked with an §. To order converter for sets built prior to June 1, 1968, also order all parts marked §.

**Carburetor Parts - Optional  
Gas-Gasoline and Gas Only - Spec A through Q**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Carburetor	11	143-0210	1	Bowl
	141-0758	1	Gas-Gasoline	12	143-0077	1	Gasket, Bowl Ring
	141-0757	1	Gas Only	13	143-0212	1	Pin, Float (Not for Gas Only Carburetor)
	141-0241	1	Repair Kit, Carburetor (No Longer Available)	14	143-0341	1	Valve, Fuel Inlet
	141-0281	1	Gasket, Carburetor Flange (Illustrated in Fuel System Group)	15	143-0213	1	Screw, Idle Adjustment (2 for Gas-Gasoline Carburetor)
1	143-0202	1	Valve, Throttle	16	812-0014	4	Screw, Round Head - Machine (#3-48 x 3/16")
2	143-0234	1	Shaft and Lever, Throttle	17	143-0110	1	Plug, Expansion
3	143-0204	1	Valve, Choke	18	143-0214	1	Spring, Throttle Adjustment
4	143-0235	1	Needle, Idle Jet and High Speed Adjustment	19	143-0112	1	Spring, Idle Adjustment (2 for Gas-Gasoline Carburetor)
5	143-0237	1	Nozzle (Not for Gas Only Carburetor)	20	143-0114	1	Spring, High Speed Adjustment
6	143-0316	1	Shaft, Choke - Gas-Gasoline Carburetor - Spec C through P	21	143-0215	1	Screw, Throttle Adjustment
7	143-0208	1	Screw and Gasket, Bowl	24	145-0308	1	Tube, Gas Inlet
8	143-0015	1	Gasket, Fuel Inlet Valve	25	148-0589	1	Needle, Gas Adjustment
9	143-0209	1	Gasket	26	148-0590	1	Spring, Gas Adjustment
10	143-0105	1	Float and Lever (Not for Gas Only Carburetor)	28	505-0008	1	Plug (1/8") - Gas Only Sets

Carburetor Parts - Optional  
Gas-Gasoline and Gas Only  
Begin Spec R

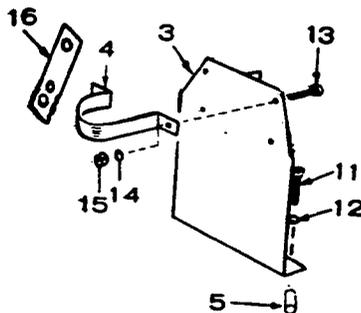
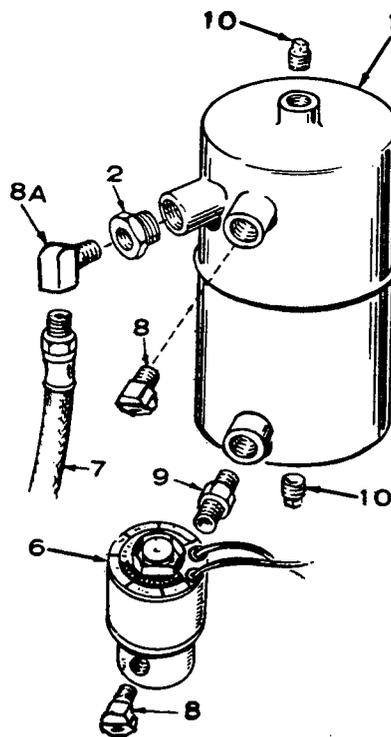


**Carburetor Parts - Optional  
Gas-Gasoline and Gas Only  
Begin Spec R**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Carburetor	13	141-0711	1	Spring, Throttle Stop
	141-0886	1	Gas-Gasoline	14	141-0713	2	Needle, Idle Adjusting
	141-0889	1	Gas Only	15	141-0710	2	Spring, Idle Needle
	141-0747	1	Repair Kit (Includes Parts Marked *)	16	141-0077	1	+*Washer, Main Jet Assembly
	141-0748	1	Gasket Kit (Includes Parts Marked +)	17	141-0712	1	Jet Assembly, Main (Adjustable) (Not used on Gas Only Sets)
	141-0281	1	*+ Gasket, Carburetor Flange	18	141-0679	1	Shaft, Choke - Electric
	154-0733	1	Gasket, Carburetor Mounting	22	141-0735	1	Shaft and Lever Throttle
1	141-0708	1	Bowl, Fuel	23	141-0733	1	Spring, Main Gas Needle - Gas and Gas-Gasoline Sets
2	141-0771	1	Plate, Choke (Not used on Gas Only Sets)	24	141-0734	1	Needle, Main Gas Adjusting - Gas and Gas-Gasoline Sets
3	141-0698	4	Screw and Washer, Choke and Throttle Plate Mounting (2 used on Gas Only Sets)	25	141-0736	1	Nut, Bowl - Gas Only Sets
4	141-0793	1	Plate, Throttle	26	141-0737	1	Plug, Pipe (1/8") - Gas Only Sets
5	141-0705	1	*Retainer, Seal	27	141-0738	1	Screw - Gas Only Sets
6	141-0661	1	*+Seal, Rubber	28	141-0739	1	Washer, Gas Only Sets
7	141-0830	1	*Valve Seat Assembly, Fuel (Not used on Gas Only Sets)	29	141-0799	1	*Spring, Float (Not used on Gas Only Sets)
9	141-0703	1	*Shaft, Float (Not used on Gas Only Sets)	30	141-0811	1	+*Washer, Fuel Valve Seat
10	141-0702	1	Float Assembly (Not used on Gas Only Sets)				
11	141-0701	1	*+Gasket, Bowl to Body				
12	141-0700	1	Screw, Throttle Stop				

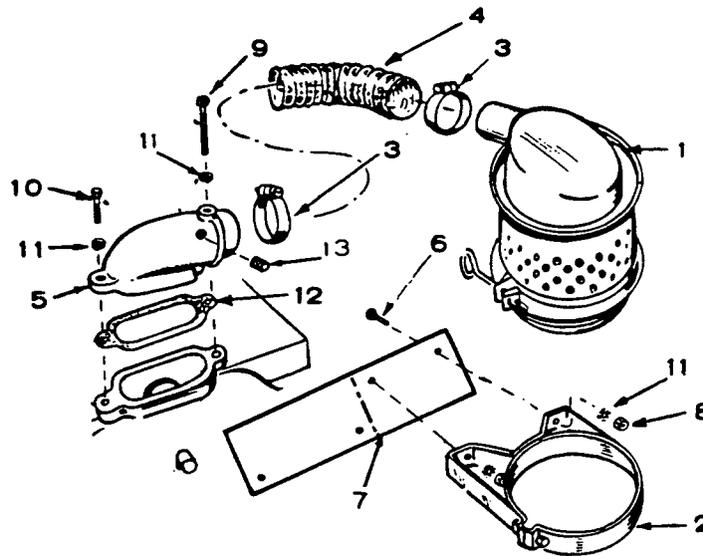
\* - Parts Included in Repair Kit 141-0747.  
+ - Parts Included in Gasket Kit 141-0748.

## Reservoir (Day) Tank - Optional



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	159-0294	1	Tank, Reservoir One Quart	8	502-0053	2	Elbow, 45° - (1) Solenoid Valve to Carburetor Line
	159-0746	1	Two Quart				(1) Reservoir Tank to Fuel Pump Line - Two Quart Tank
2	159-0705	1	Reducer, Restricted	8A	502-0020	1	Elbow, 90° - Reservoir Tank to Fuel Pump Line - One Quart Tank
3	159-0759	1	Bracket, Tank Mounting One Quart Tank	9	502-0082	1	Nipple
	159-0826	1	Two Quart Tank	10	505-0057	2	Plug
4	159-0121	1	Band, Tank Mounting One Quart Tank	11	800-0039	2	Screw, Cap - Hex Head - Day Tank Bracket Mounting (5/16-18 x 3-1/2")
	159-0825	1	Two Quart Tank	12	850-0045	2	Washer, Lock - Day Tank Bracket Mounting (5/16)
5	159-0761	2	Spacer, Mounting Bracket to Rocker Cover	13	800-0007	2	Screw, Cap - Hex Head - Day Tank Bracket Mounting (1/4-20 x 1")
6	307-0565	1	Valve, Solenoid (12 Volt) Line, Fuel	14	850-0040	2	Washer, Lock - Day Tank Bracket Mounting (1/4")
7	501-0005	1	Reservoir Tank to Main Tank	15	862-0001	2	Nut, Hex - Day Tank Bracket Mounting (1/4-20)
	501-0008	2	(1) Fuel Pump to Reservoir Tank (1) Reservoir Tank to Carburetor - Two Quart Tank	16	159-0523	2	Spacer, Bracket (Used on 1 Quart Tank Only)
	501-0007	1	Fuel Pump to Reservoir Tank - One Quart Tank				
	501-0004	1	Reservoir Tank to Carburetor - One Quart Tank				

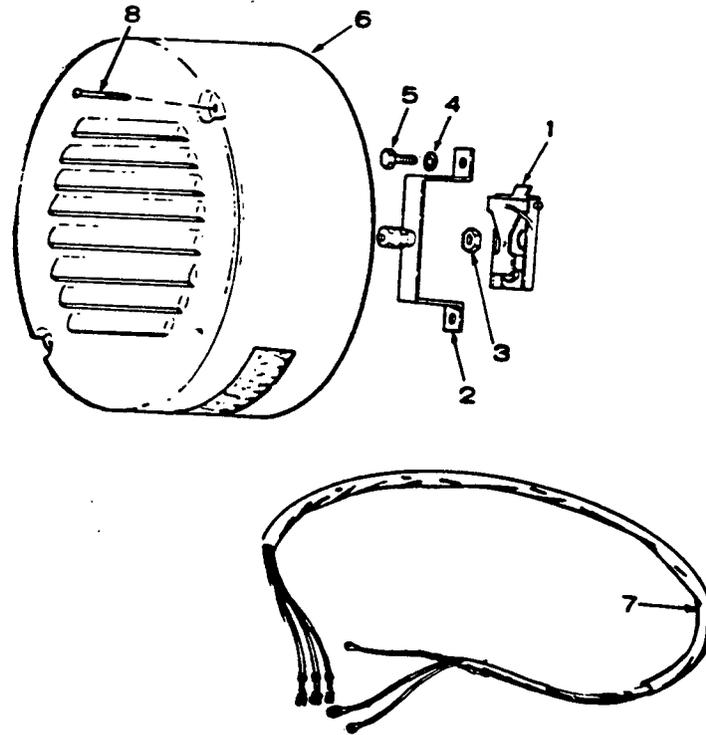
## Oil Bath Air Cleaner - Optional



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	140-0677	1	Conversion Kit, Oil Bath Air Cleaner (Includes Parts Marked *)	7	140-0798	1	Bracket, Air Cleaner - Mounting (Mount on Intake Manifold) (No Longer Available)
1	140-0500	1	*Cleaner, Air - Oil Bath	8	862-0001	2	*Nut, Hex (1/4-20)
2	140-0519	1	*Band, Air Cleaner	9	800-0015	1	*Screw, Cap - Hex Head (1/4-20 x 3")
3	503-0274	2	*Clamp, Hose	10	800-0007	1	*Screw, Cap - Hex Head (1/4-20 x 1")
4	503-0444	1	*Hose, Air Cleaner to Adapter (2" ID x 30")	11	850-0040	4	*Washer, Lock (1/4")
5	140-1212	1	*Adapter, Air Cleaner	12	140-0584	1	*Gasket, Adapter Mounting
6	800-0003	2	*Screw, Cap - Hex Head (1/4-20 x 1/2")	13	505-0008	1	*Plug, Slotted (1/8" Dia.)

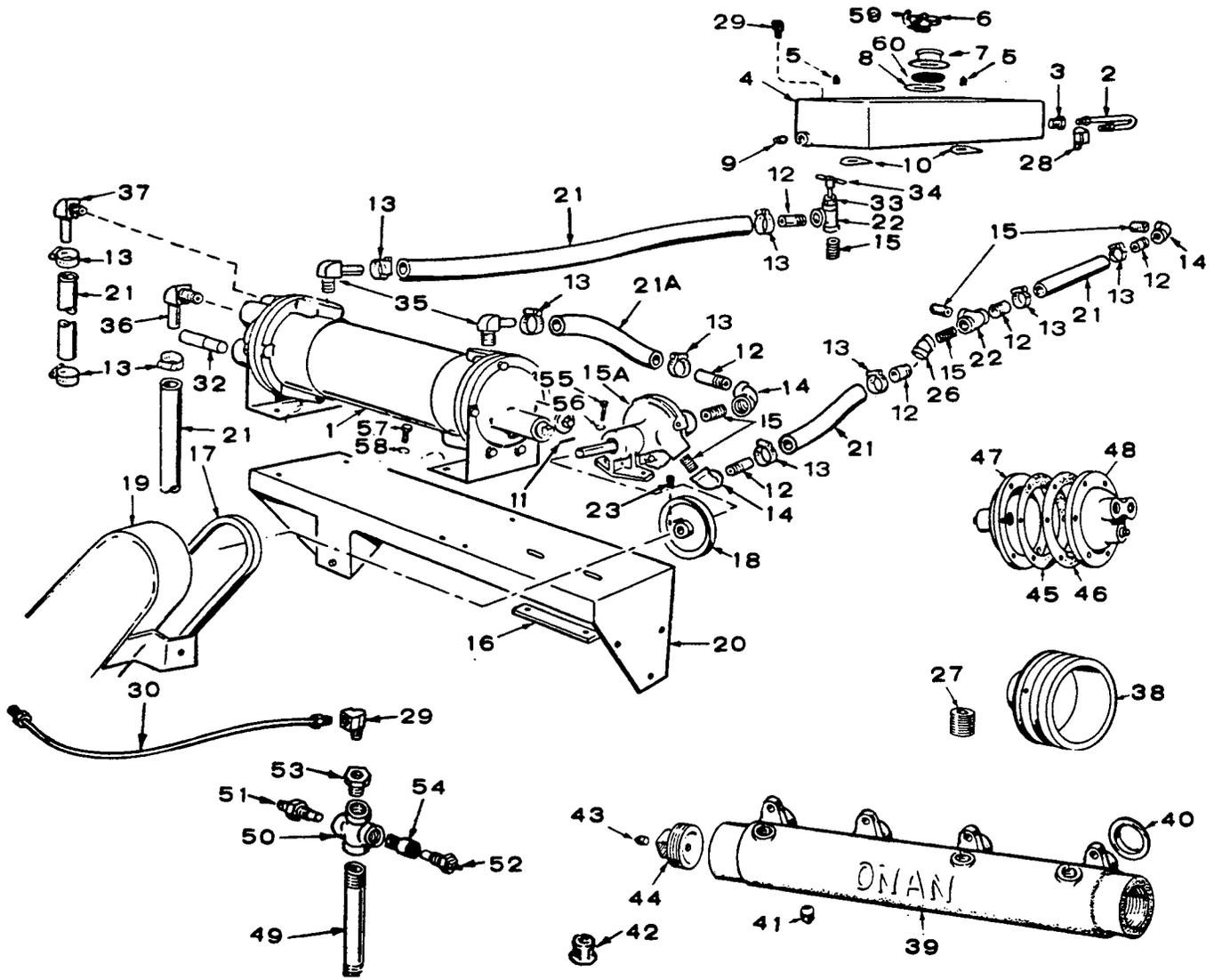
\* - Parts Included in 140-0677 Conversion Kit.

## Overspeed Switch - Optional



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Switch Assembly - Overspeed	5	813-0100	2	Screw, Round Head - Machine (10-32 x 1/2") Overspeed
	150-1661	1	50 Hz				Bracket and Point Assembly
	150-0956	1	60 Hz				Mounting
2			Bracket and Point Assembly, Overspeed	6			Cover, Endbell
	150-0958	1	Spec A through Z		234-0498	1	Unhoused Units
	150-1446	1	Begin Spec AA		234-0223	1	Housed Units
3	868-0004	1	Nut, Hex - Jam (7/16-20)	7	338-0768	1	Harness, Wiring - Overspeed
			Overspeed Switch Mounting	8	812-0167	2	Screw, Round Head - Machine (1/4-20 x 6")
4	850-0030	2	Washer, Lock (#10) Overspeed				
			Bracket and Point Mounting				

Heat Exchanger (Key 3,4)  
Optional



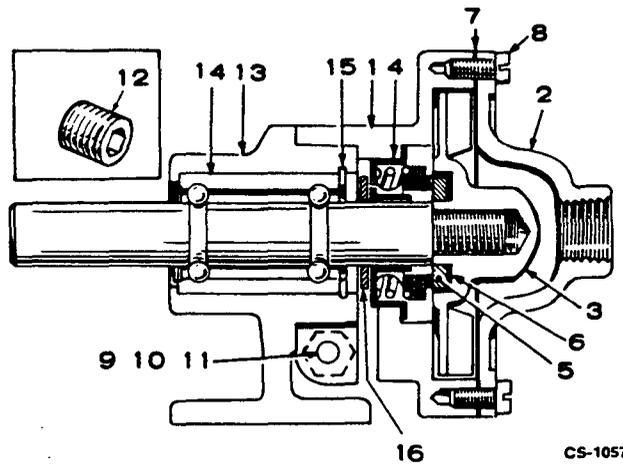
## Heat Exchanger (Key 3,4) - Optional

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-0624	1	Exchanger, Heat	32	130-1340	2	Pencil, Zinc (Included in Heat Exchanger)
2	130-0575	1	Line, Water - Expansion Tank to Exhaust Manifold	33	502-0049	1	Bushing, Reducer (3/8 x 1/8")
3	502-0103	1	Connector, Inverted Male - Expansion Tank Outlet	34	504-0006	1	Valve, Air Bleed - Manifold Outlet
4	130-0646	1	Tank, Expansion	35	502-0300	2	Elbow, Heat Exchanger - Fresh Water Hoses - Begin Spec C
5	502-0080	2	Plug, Expansion Tank Fill Vent	36	502-0302	1	Elbow, Heat Exchanger - Raw Water Inlet Hose - Begin Spec C
6	130-0589	1	Cap, Pressure	37	502-0237	1	Elbow, Heat Exchanger - Raw Water Outlet Hose - Begin Spec C
7	130-0590	1	Neck & Adapter, Expansion Tank Cap	38	104-0957	1	Pulley, Flywheel
8	130-0519	1	Gasket, Neck and Adapter	39	154-0723	1	Manifold, Exhaust - Water Cooled
9	502-0155	1	Plug (3/8")	40	154-1057	4	Gasket, Exhaust Manifold to Head
10	309-0145	2	Gasket, Thermostat Chamber	41	505-0110	1	Plug, Pipe (3/8") - Manifold Water Drain
11	515-0249	1	Key, Pulley to Water Pump	42	309-0130	2	Thermostat
12	505-0135	6	Nipple (3/8 x 2") - Hose Connector	43	502-0080	1	Plug (1/8"), Square Head Brass - Manifold End Plug
13			Clamp, Hose	44	505-0402	1	Plug, Exhaust Manifold End
	503-0183	9	1-1/16"	45	130-0729	1	Gasket, Heat Exchanger - Fresh Water End
	503-0446	2	25/32"	46	130-0730	1	Gasket, Heat Exchanger - Raw Water End
14	505-0039	3	Elbow (90° - 3/8")	47	130-0731	1	Bonnet, Heat Exchanger - Fresh Water End
15	505-0101	6	Nipple (3/8")	48	130-0732	1	Bonnet, Heat Exchanger - Raw Water End
15A	132-0110	1	Pump, Centrifugal Water (See Separate Group for Components) NOTE: When Replacing Water Pump with Flat Area on Shaft Also Order 1 each of 132-0252 Pulley and Set Screw Kit and 515-0249 Key.	49	505-0224	1	Nipple, Pipe (3/8 x 4-1/2")
16	131-0130	1	Bar, Pump Hold-down	50	505-0475	1	Cross, Pipe (3/8")
17	511-0067	1	Belt, Centrifugal Water Pump	51	309-0178	1	Switch, High Water Temperature Cut-Off
18			Pulley, Centrifugal Water Pump	52	193-0104	1	Sender Unit - Water Temperature
	512-0134	1	Sets With Flat Area on Water Pump Shaft (Includes Parts Marked *)	53	505-0016	1	Bushing, Reducer (3/8 x 1/8")
	132-0252	1	Sets With Keyed Area on Water Pump Shaft (Includes Parts Marked *)	54	309-0081	1	Extension, Pipe - Temperature Switch
19			Guard, Belt	55	800-0005	2	Screw, Cap - Hex Head Water Pump Mounting (1/4-20 x 3/4")
	130-0591	1	Spec A through Z	56	850-0040	2	Washer, Lock - Water Pump Mounting (1/4)
	130-0920	1	Begin Spec AA	57	800-0004	4	Screw, Cap - Hex Head - Heat Exchanger Mounting (1/4-20 x 5/8")
20			Bracket, Heat Exchanger & Governor Spring	58	850-0040	4	Washer, Lock - Heat Exchanger Mounting (1/4")
	130-0587	1	Spec A through Q	59	503-0679	1	Hose, Overflow (5/16 ID x 13")
	130-0692	1	Begin Spec R	60	130-0892	1	Stiffener, Filler Neck Repair Kit, Water Pump (Early Models)
21	503-1196	1	Hose, Rubber (3/4" ID x 56" Total length required for all hoses) (except raw water pump)		132-0080	1	For Oberdorfer No. 50P11 (Spec A through Q)
21A	503-0890	1	Hose, Rubber (1/2" ID x 14") Raw Water Pump to Heat Exchanger				
22	505-0060	2	Tee (3/8")				
23	803-0062	1	*Screw, Set (5/16-18 x 5/16")				
26	505-0376	1	Elbow, 45°				
27	505-0266	1	Plug (3/8"), Exhaust Manifold				
28	502-0074	1	Elbow, Inverted Male - Manifold Water Line Inlet				
29	502-0037	2	Elbow, Heat Exchanger to Line				
30	130-0813	1	Line, Heat Exchanger to Cylinder Head				

\* - Parts Included in 132-0252 Water Pump Pulley Kit.  
 Parts Included in 512-0134 Water Pump Pulley Kit.

## Water Pump Parts (Key 3,4) - Optional

**NOTE:** This pump used on sets with optional heat exchanger.

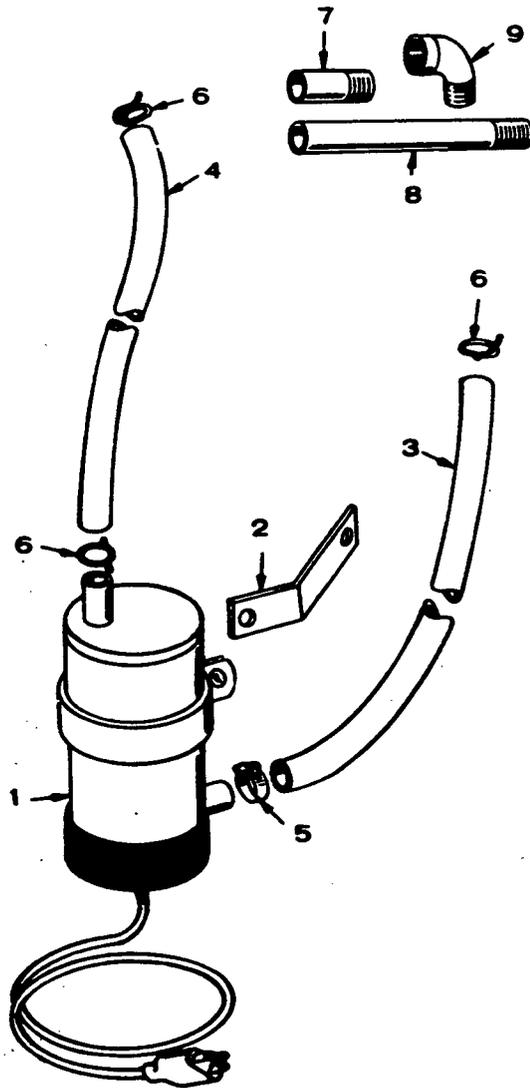


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	132-0110	1	Pump, Water	10	132-0139	1	Lockwasher - Used on Early Style Pumps
	132-0241	1	Repair Kit, Water Pump	11	132-0140	1	Nut, Hex - Used on Early Style Pumps
			Sets With Flat Area on Shaft (Includes Water Pump Pulley, Set Screw, Key and Parts Marked *)	12	132-0141	1	Plug, Drain - Used on Early Style Pumps
	132-0240	1	Sets With Keyed Area on Shaft (Includes Parts Marked #)	13		1	Pedestal
1		1	Body, Pump (Not Sold Separately)	14	132-0239	1	* Shaft and Bearing Assembly
2	132-0137	1	Cover, Pump			1	* Sets With Flat Area on Shaft (Repair Kit - Also Includes Water Pump Pulley, Set Screw and Key)
3	132-0114	1	**Impeller		132-0225	1	# Sets With Keyed Area on Shaft
4	132-0101	1	**Seal	15	132-0132	1	Ring, Snap
5	132-0091	1	**Face, Wear	16	132-0224	1	Slinger, Fiber
6	132-0092	1	**Seat, Seal				
7	132-0112	1	**Gasket, Cover				
8	132-0113	6	**Screw, Cover				
9	132-0138	1	Screw, Cap - Used on Early Style Pumps				

\* - Parts Included in 132-0241 Repair Kit.  
# - Parts Included in 132-0240 Repair Kit.

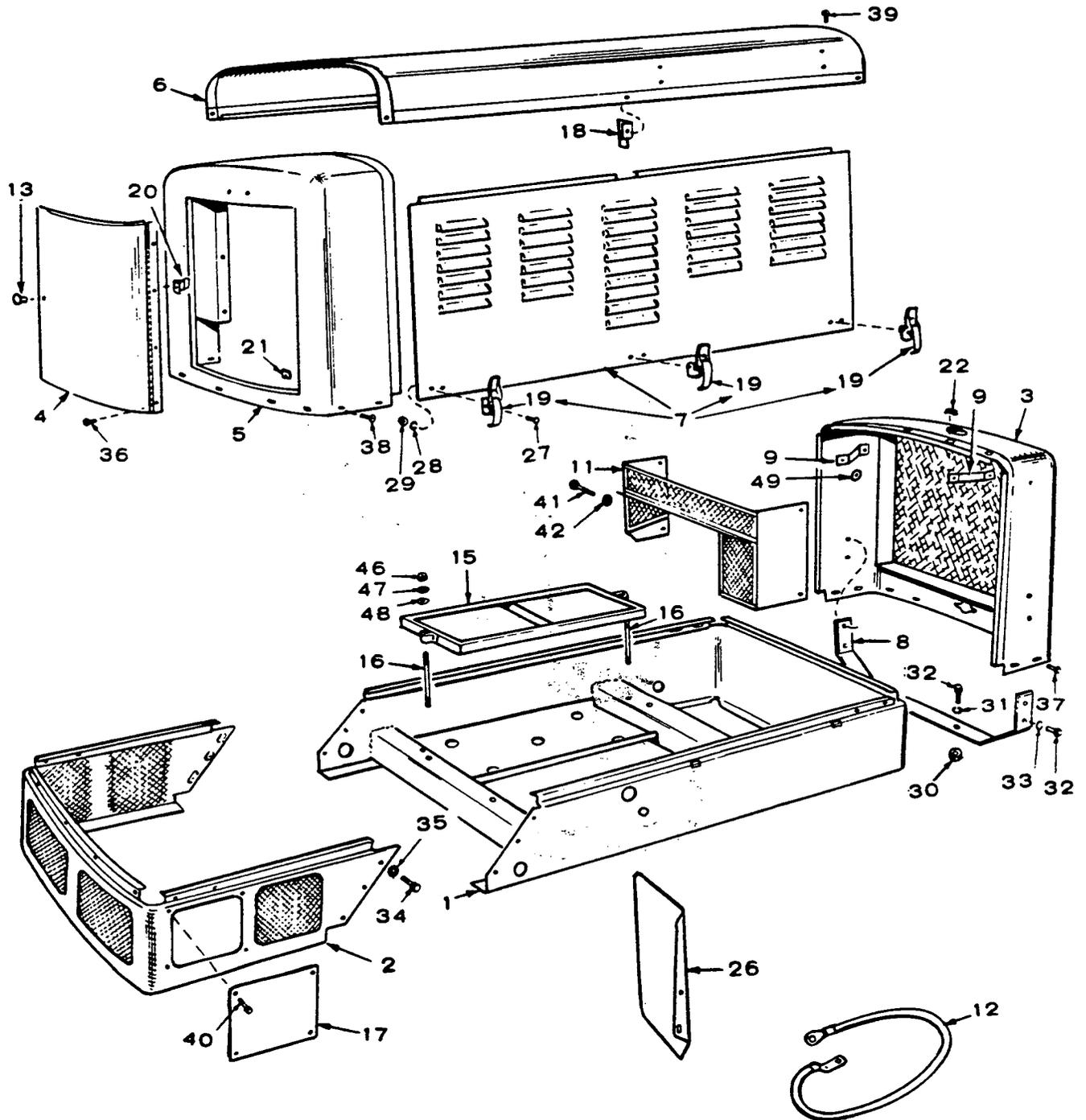
**NOTE:** This pump used on sets with optional heat exchanger.

## Engine Coolant Heater - Optional



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0054	1	Heater, Water Jacket	5	503-0183	4	Clamp, Hose - Lower Heater
2	130-0755	1	Bracket, Heater	7	505-0135	1	Nipple, Half
3	503-0565	1	Hose (5/8" ID x 20" Lg)	8	505-0273	1	Nipple, Half
4	503-0566	1	Hose (5/8" ID x 18" Lg)	9	502-0075	1	Elbow, Street

# Housing and Chassis - Optional



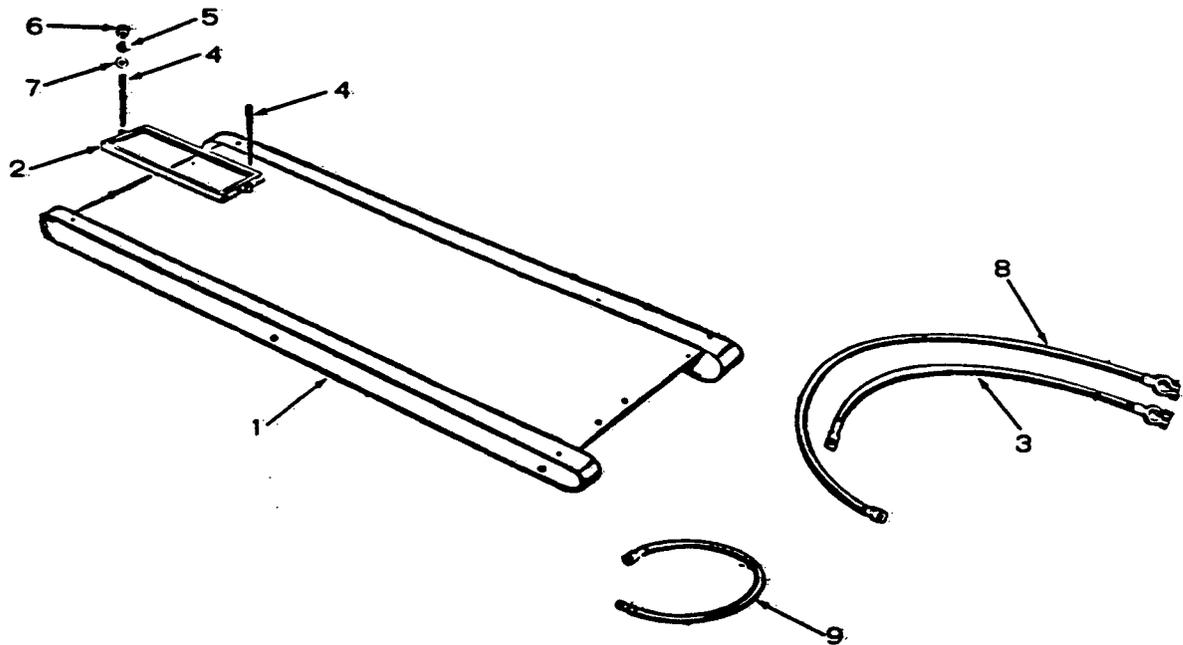
## Housing and Chassis - Optional

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	405-2526	1	Housing Kit (Includes Parts Marked *)	30	862-0003	4	*Nut, Hex - Radiator Support (Housed Sets) (3/8-16)
1			Chassis, Mounting - Front Section	31	850-0050	2	*Washer, Lock - Radiator Support (Housed Sets) (3/8")
	403-0658	1	Spec A Only (No Longer Available)	32	800-0024	4	*Screw, Cap - Hex Head - Radiator Bracket to Radiator (5/16-18 x 1/2") Housed Sets
	403-0718	1	Begin Spec B	33	800-0045	4	Washer, Lock - Radiator Bracket to Radiator (5/16) - Housed Sets
2	403-0477	1	*Chassis, Rear Section - Housed Sets	34	800-0047	6	*Screw, Cap - Hex Head - Rear Chassis to Front Chassis (3/8-16 x 5/8") - Housed Sets
3	405-1079	1	Panel, Front End (Radiator Grille)	35	850-0050	6	Washer, Lock Rear Chassis to Front Chassis (3/8) - Housed Sets
4	405-1080	1	*Panel, Rear Door - Housed Sets	36	809-0059	4	*Screw, Machine - Pan Head - Control Door to Panel (Housed Sets) - (1/4 x 1/2")
5	405-1081	1	*Panel, Rear End (Does NOT Include Door) - Housed Sets	37	821-0014	8	*Screw, Hex Washer Head - Self Locking (5/16-18 x 1/2")
6	405-1319	1	*Panel, Top - Housed Sets	38	821-0014	10	* Front Panel to Chassis - Housed Sets
7	405-1084	2	*Housing, Side (Includes Fasteners) - Housed Sets	39	821-0014	12	* Front and Rear Panel to Top Panel - Housed Sets
8	130-0396	1	Support, Radiator Mounting	40	800-0024	6	*Screw, Cap - Hex Head - Chassis Panel Door (5/16-18 x 1/2")
9	130-0397	2	Bracket, Radiator	41	800-0048	4	Screw, Cap - Hex Head - Fan Guard to Radiator (3/8-16 x 3/4") - Housed Sets
11	130-0623	1	Guard, Fan	42	850-0050	4	*Washer, Lock - Fan Guard to Radiator (3/8) Housed Sets
12	336-0476	1	Cable, Ground Strap (NOTE: Quantity of 2 for Unhoused Sets)	46	862-0015	4	Nut, Hex - Battery Hold-down (5/16-18) - Housed Sets
13	406-0002	1	*Knob, Rear Door Panel - Housed Sets	47	526-0024	2	Washer, Flat - Battery Hold-down (21/64" ID x 3/4" OD x 1/16" Thk) - Housed Sets
15	416-0495	1	Frame, Battery Hold-down	48	850-0045	4	Washer, Lock - Battery Hold-down (5/16) - Housed Sets
16	520-0669	2	Stud, Battery Hold-down Frame	49	526-0013	16	Washer, Flat - Radiator Support Bracket (25/64" ID x 1" OD x 1/16" Thk)
17	403-0373	1	*Panel, Chassis - Housed Sets				
18	405-1181	2	*Stop, Drive - Housing Side Panel - Housed Sets				
19	406-0105	6	Fastener, Side Panel - Housed Sets				
20	406-0088	1	*Catch, Rear Door Panel - Housed Sets				
21	870-0106	4	*Nut, Speed - Rear Door Panel Mounting - Housed Sets				
22	870-0113	18	*Nut, Retaining (12) Rear End Panel to Housing Top - Housed Sets				
26	155-0848	1	Shield, Muffler Heat				
27	813-0098	12	Screw, Cap - Hex Head - Housing Hold-Down (Housed Sets) (10-32 x 3/8")				
28	850-0030	12	Washer, Lock - Housing Hold-down (Housed Sets) (#10)				
29	870-0053	12	Nut, Hex - Housing Hold-down (10-32)				

\* - Parts Included in 405-2526 Housing Kit.

**NOTE:** Parts in this group are for Parts Key 1,2 both housed and unhoused sets unless otherwise specified.

## Skid Base - Optional

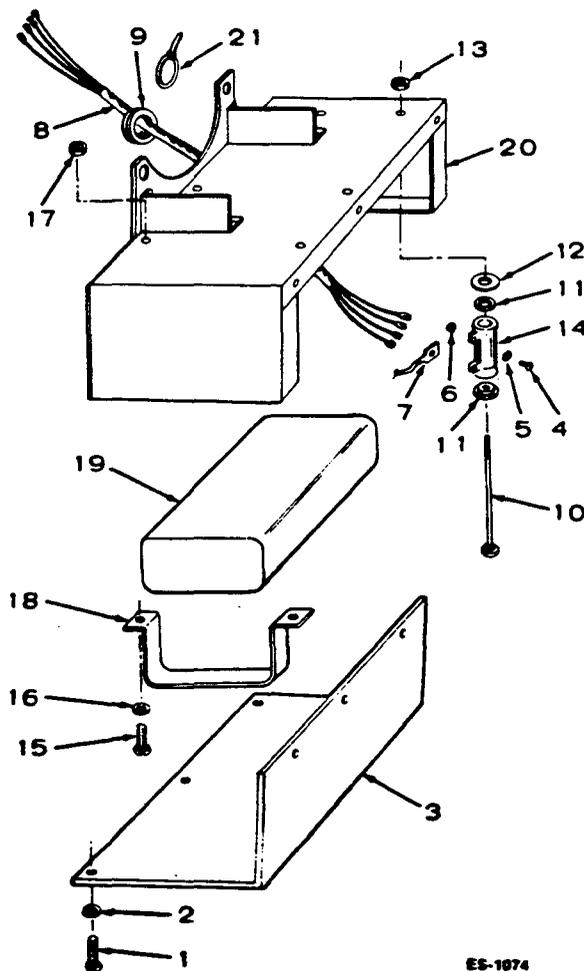


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	403-0792	1	Skid Base Assembly (Complete) - Includes Parts Marked *
1	403-0661	1	*Skid
2	416-0502	1	*Frame, Battery Hold-down
3	416-0133	1	*Cable Assembly, Battery
4	520-0490	2	*Stud, Battery Hold-down
5	850-0045	2	*Washer, Lock (5/16")

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
6	862-0015	6	*Nut, Hex (5/16-18)
7	526-0115	2	*Washer, Flat (11/32" ID x 11/16" OD x 1/16" Thk)
8	416-0037	2	*Cable, Battery
9	336-0476	1	*Strap, Ground

\* - Parts Included in Skid Base Assembly 403-0792.

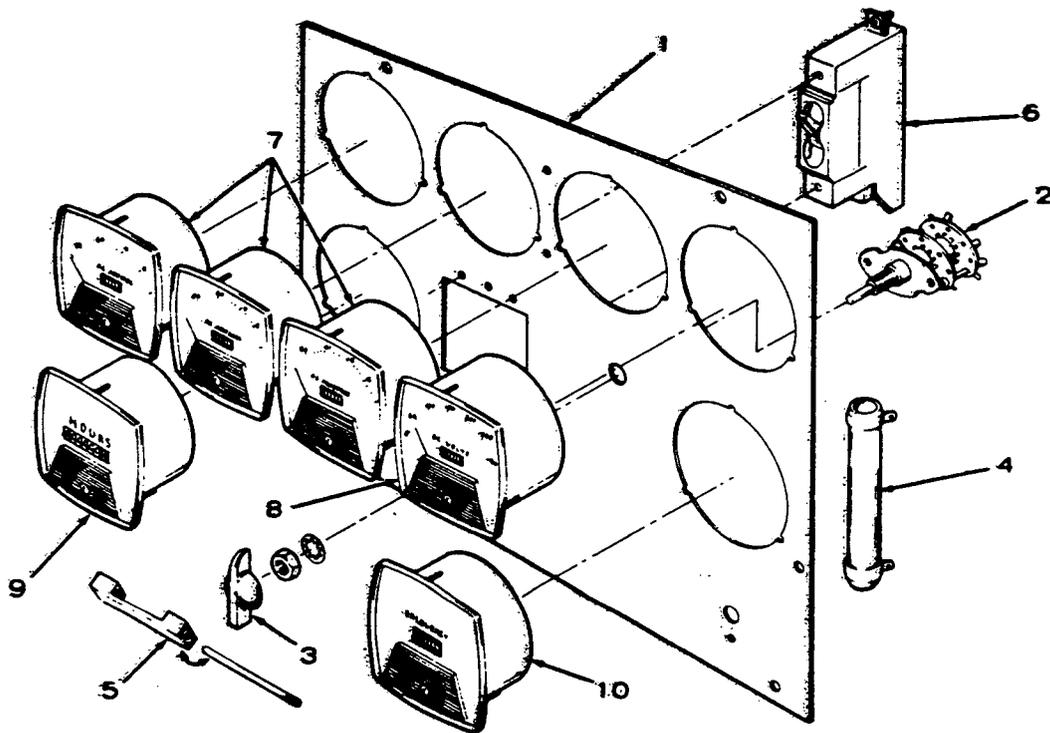
## Voltage Regulator Filter - Optional



ES-1074

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0098	6	Screw, Round Head - Machine (#10-32 x 3/8")	11	304-0015	4	Washer, Centering
2	850-0030	6	Washer, Lock - Spring (#10)	12	304-0292	2	Insulator, Resistor
3	232-2463	1	Cover, Housing	13	870-0053	2	Nut, Hex (#10-32)
4	815-0001	4	Screw, Binding Head - Machine Brass (#6-32 x 1/4")	14	304-0120	2	Resistor, Fixed (2 Ohm, 25 Watt)
5	853-0003	4	Washer, Lock - ET (#6)	15	812-0079	4	Screw, Round Head - Machine (#8-32 x 1/2")
6	860-0006	4	Nut, Hex (#6-32)	16	850-0025	4	Washer, Lock (#8)
7	332-1279	4	Terminal, Lug	17	860-0008	4	Nut, Hex (#8-32)
8	338-1165	1	Harness, Wiring	18	312-0198	2	Bracket, Mounting - Capacitor
9	508-0071	1	Grommet, Rubber	19	312-0197	1	Capacitor
10	813-0112	2	Screw, Round Head - Machine (#10-32 x 2-1/2")	20	232-2462	1	Housing, Filter
				21	332-0942	2	Tie, Cable

AC Meter Panel - Optional

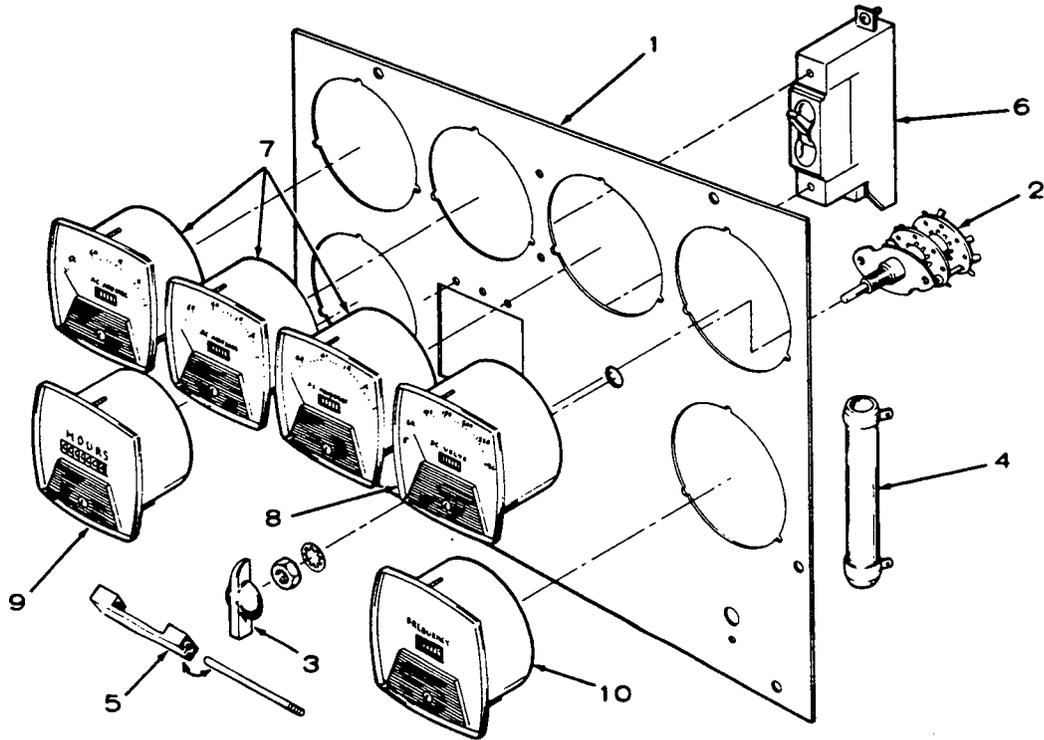


98C-1115

### AC Meter Panel - Optional

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Panel, Meter				Panels with 6 Meters
			<b>Panels with 3 Meters</b> (Voltmeter, Ammeter, Running Time Meter)				(Ammeters (3), Voltmeter, Frequency Meter, Running Time Meter)
	301-1554	1	1R, 120 Volt, 1 Phase, 2 Wire, 60 Hertz - 51R, 120 Volt, 1 Phase, 2 Wire, 50 Hertz	301-2204	1	4R, 54R, 120/208 Volt, 3 Phase, 4 Wire, 50, 60 Hertz - 5DR, 55DR, 120/240 Volt, 3 Phase, 4 Wire, 50, 60 Hertz - 8R, 58R, 127/220 Volt, 3 Phase, 4 Wire, 50, 60 Hertz	
	301-1602	1	4XR8, 277/480 Volt, 3 Phase, 4 Wire, 60 Hertz				
	301-3583	1	4XR, 277/480 Volt, 3 Phase, 4 Wire, 60 Hertz Note: This Panel has Opening for Wattmeter Number 302-0883)	301-2308	1	4XR, 277/480 Volt, 3 Phase, 4 Wire, 50, 60 Hertz - 7R, 57R, 220/380 Volt, 3 Phase, 4 Wire, 50, 60 Hertz	
			<b>Panels with 4 Meters</b> (Ammeter, Voltmeter, Running Time Meter and Frequency Meter)	301-2397	1	9XR, 347/600 Volt, 3 Phase, 4 Wire, 50, 60 Hertz - 99R, 347/600 Volt, 3 Phase, 4 Wire, 60 Hertz	
	301-1551	1	3R, 53R - 120/240 Volt, 1 Phase, 3 Wire, 50, 60 Hertz (Note: This Panel Uses 2 Ammeters, 1 Volt- meter and 1 Running Time Meter)	301-3732	1	18R, 120/208 Volt, 3 Phase, 4 Wire, 60 Hertz - 120/240 Volt, 1 Phase, 3 Wire, 60 Hertz	
	301-1641	1	2R, 52R, 240 Volt, 1 Phase, 2 Wire, 50, 60 Hertz	2 308-0012	1	Switch, Voltage Selector - Three Phase Sets	
			<b>Panels with 5 Meters (Ammeter</b> <b>(3), Voltmeter, Running Time</b> <b>Meter)</b>	3 303-0076	1	Knob, Voltage Selector Switch - Three Phase Sets	
	301-2288	1	3R, 120/240 Volt, 1 Phase, 3 Wire, 60 Hertz - 53R, 120/240 Volt, 1 Phase, 3 Wire, 50 Hertz Note: This Panel uses 1 Frequency Meter, 2 Ammeters, 1 Voltmeter and 1 Running Time Meter)	4 304-0536	1	Resistor, Fixed (9,000 Ohm, 50 Watt) Running Time Meter - 600 Volt Sets	
				5		Bar, Circuit Breaker Tie	
	301-2330	1	4XR, 277/480 Volt, 3 Phase, 4 Wire, 60 Hertz	320-0187	1	Sets With 3 Circuit Breakers	
	301-2372	1	9XR, 347/600 Volt, 3 Phase, 4 Wire, 50, 60 Hertz	320-0202	1	Sets With 2 Circuit Breakers	
	301-2453	1	3R, 120/240 Volt, 1 Phase, 3 Wire, 60 Hertz - 4R, 120/208 Volt, 3 Phase, 4 Wire, 60 Hertz - 4XR, 277/480 Volt, 3 Phase, 4 Wire, 60 Hertz (Note: This Panel can also use 2 Ammeters, 1 Voltmeter, 1 Running Time Meter and 1 Frequency Meter - Pennsylvania Approved Sets)				

# AC Meter Panel - Optional

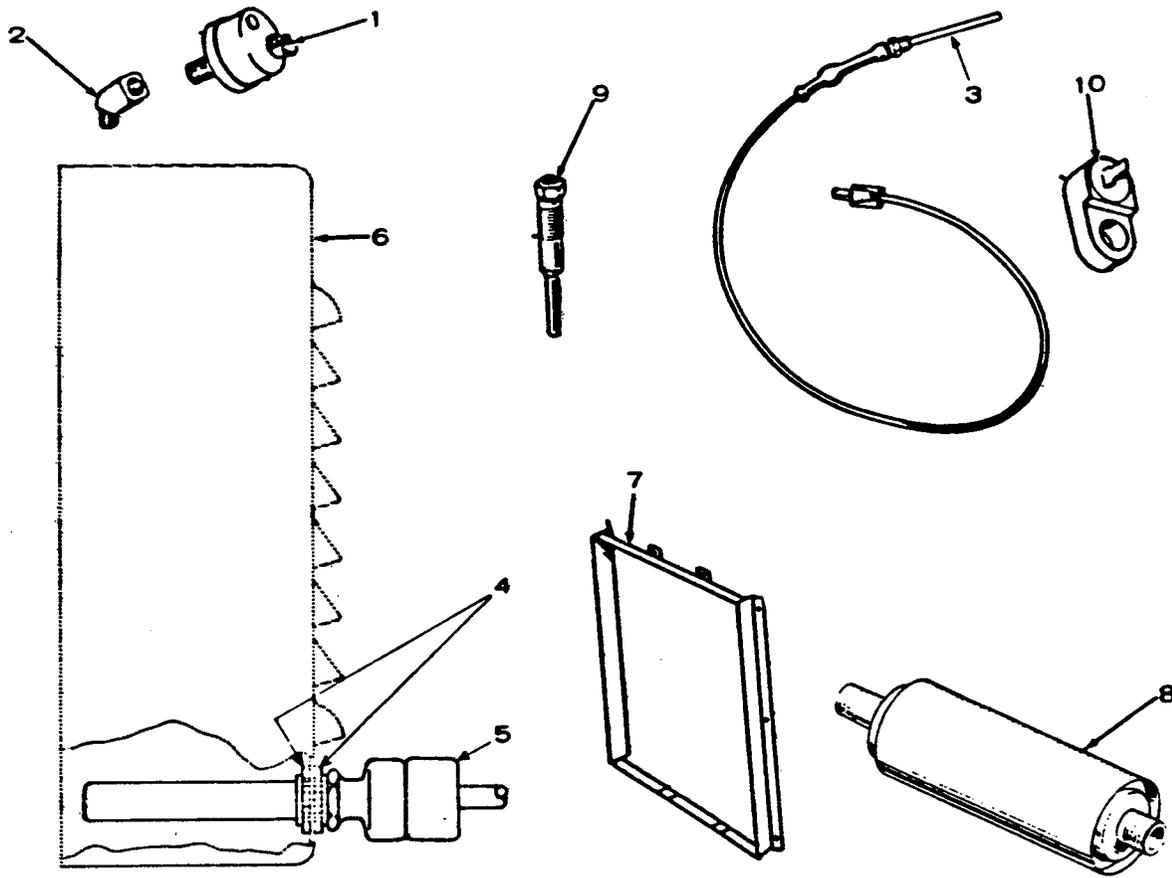


XSC-1115

### AC Meter Panel - Optional

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6			Breaker, Circuit (Check Original Part - Select According to Amperage and Voltage)	8			Voltmeter, AC (Check Scale - Select Accordingly)
320-0153	1	40 Amp, 240 Volt (Single Pole)		302-0421	1	Scale Reads 0-300	
320-0198	1	45 Amp, 240 Volt (Single Pole)		302-0422	1	Scale Reads 0-600	
320-0052	1	50 Amp, 240 Volt (Single Pole)		302-0423	1	Scale Reads 0-750	
320-0195	1	55 Amp, 240 Volt (Single Pole)		9			Meter, Running Time (Check Meter Face for Part Number)
320-0021	1	60 Amp, 240 Volt (Single Pole)		302-0465	1	120 Volt, 60 Hertz	
320-0366	1	65 Amp, 240 Volt (Single Pole)		302-0466	1	220 Volt, 60 Hertz	
320-0148	1	70 Amp, 240 Volt (Single Pole)		302-0467	1	480 Volt, 60 Hertz	
320-0367	1	75 Amp, 240 Volt (Single Pole)		302-0468	1	120 Volt, 50 Hertz	
320-0251	1	100 Amp, 240 Volt (Single Pole)		302-0469	1	220 Volt, 50 Hertz	
320-0486	1	20 Amp, 480 Volt (3 Pole Companion)		302-0470	1	480 Volt, 50 Hertz	
320-0487	1	25 Amp, 480 Volt (3 Pole Companion)		10			Meter, Frequency - Optional (Check Meter Face for Part Number)
320-0488	1	30 Amp, 480 Volt (3 Pole Companion)		302-0213	1	100 through 150 Volt, 60 Hertz	
320-0514	1	15 Amp, 600 Volt (3 Pole Companion)		302-0221	1	200 through 250 Volt, 60 Hertz	
320-0459	1	20 Amp, 600 Volt (3 Pole Companion)		302-0716	1	480 Volt, 60 Hertz	
7			Ammeter, AC (Check Scale - Select Accordingly)	302-0717	1	600 Volt, 60 Hertz	
302-0460	1	Scale Reads 0-20		302-0234	1	100 through 150 Volt, 50 Hertz	
302-0418	1	Scale Reads 0-30		302-0256	1	200 through 250 Volt, 50 Hertz	
302-0444	1	Scale Reads 0-35		302-0825	1	480 Volt, 50 Hertz	
302-0419	1	Scale Reads 0-50		302-0788	1	600 Volt, 50 Hertz	
302-0458	1	Scale Reads 0-80					

## Miscellaneous Optional Parts



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	309-0169	1	Switch, Low Oil Pressure	7	405-1157	1	Flange, Air Duct Adapter
	309-0064	1	Closes at 14 lbs. Pressure	8	155-0360	1	Muffler, Critical Type
2	502-0053	1	Closes at 9 lbs. Pressure	9	110-1282	1	Bolt, Lo Engine Temperature Switch (Special)
			Elbow (45°) Low Oil Pressure	10	309-0269	1	Switch, Lo Engine Temperature
3	102-0558	1	Cut Off Switch - Spec A & B				(Install under cylinder head bolt in center of engine)
4	331-0041	2	Heater, Oil Base				
5	333-0157	1	Nut, Lock (1/2") Begin Spec AA				
6			Heater, Generator Space				
			Cover, End Bell (Sets With Generator Heater)				
	234-0541	1	Housed Sets				
	234-0542	1	Sets Without Overspeed Switch				
	234-0543	1	Sets With Overspeed Switch				

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